

Pantheon Report

Generated at 2018-01-16 13:32:34 (UTC).

Data path: GCE Sydney Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

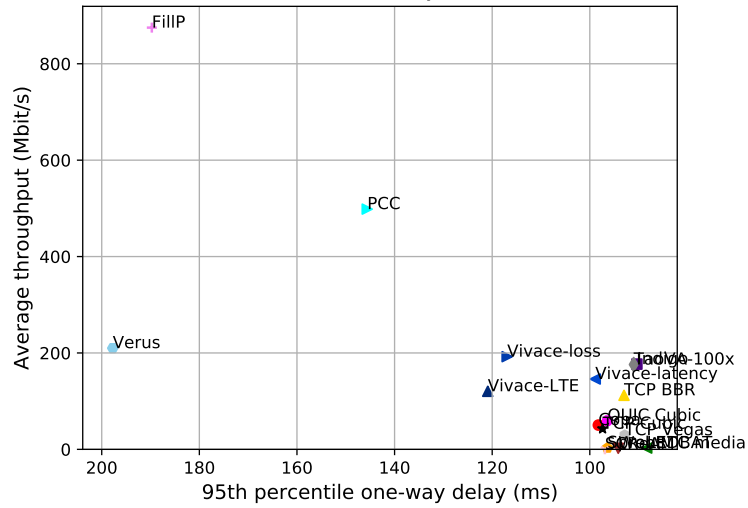
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

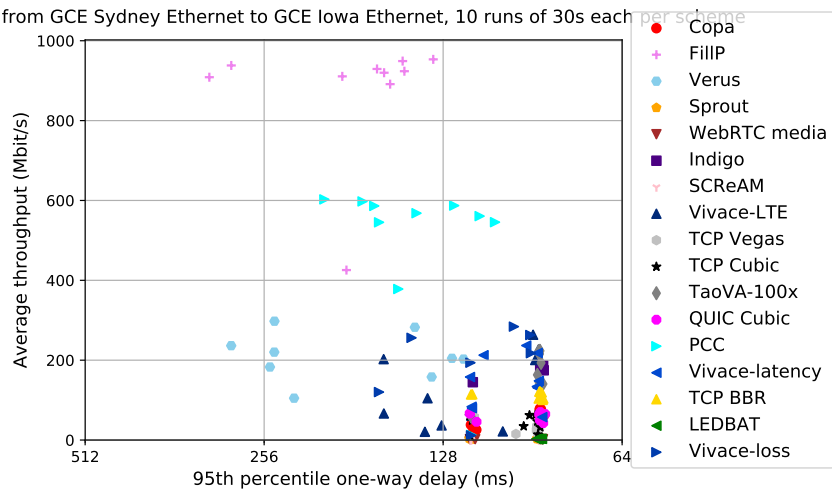
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	112.17	92.99	0.68
TCP Cubic	10	42.80	97.38	1.04
LEDBAT	8	2.66	88.34	1.10
PCC	10	498.45	145.60	1.94
QUIC Cubic	9	59.46	96.38	0.83
SCReAM	9	0.21	96.90	0.54
WebRTC media	8	2.17	94.17	0.67
Sprout	10	3.01	96.42	1.54
TaoVA-100x	9	175.96	91.01	0.79
TCP Vegas	8	29.34	92.86	0.68
Verus	9	209.97	197.75	3.44
Copa	10	50.35	98.25	0.98
FillP	10	874.99	189.74	2.22
Indigo	9	176.87	90.36	0.66
Vivace-latency	10	145.91	98.89	0.93
Vivace-loss	7	192.29	116.93	0.78
Vivace-LTE	10	120.49	120.91	0.78

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 07:33:29

End at: 2018-01-16 07:33:59

Below is generated by plot.py at 2018-01-16 12:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.08 Mbit/s

95th percentile per-packet one-way delay: 88.188 ms

Loss rate: 0.61%

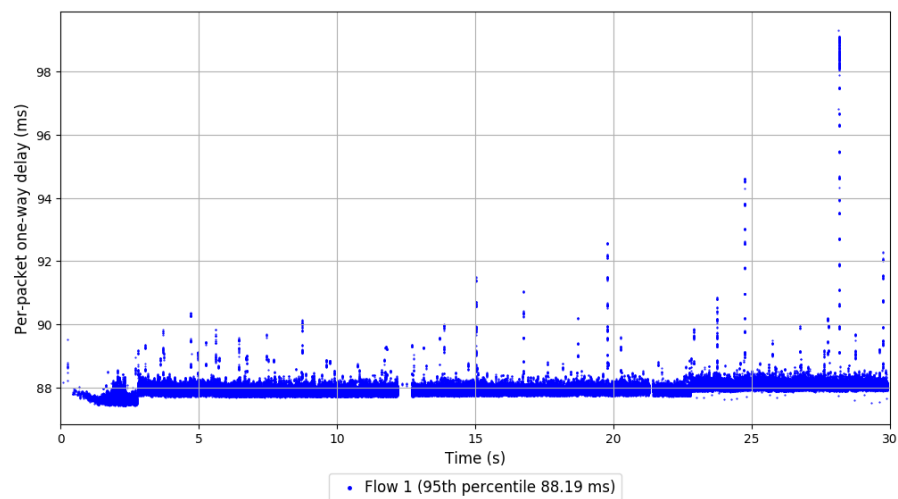
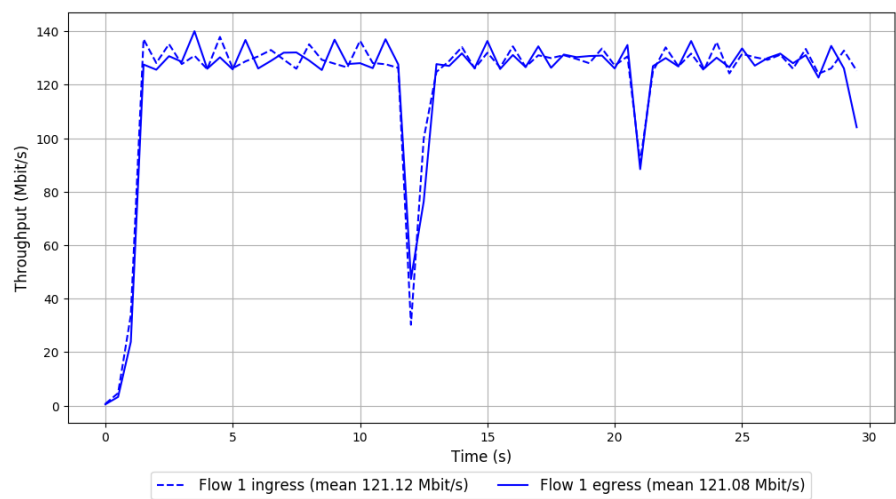
-- Flow 1:

Average throughput: 121.08 Mbit/s

95th percentile per-packet one-way delay: 88.188 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 07:48:48

End at: 2018-01-16 07:49:19

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.32 Mbit/s

95th percentile per-packet one-way delay: 87.974 ms

Loss rate: 0.61%

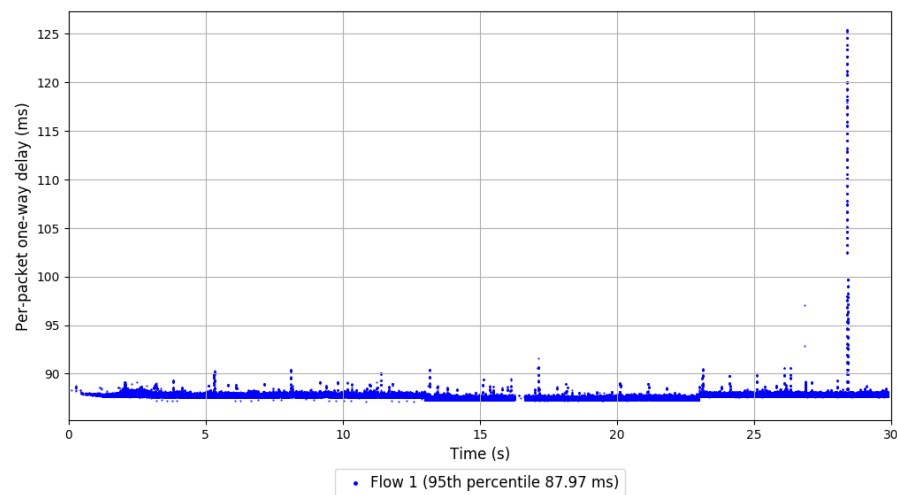
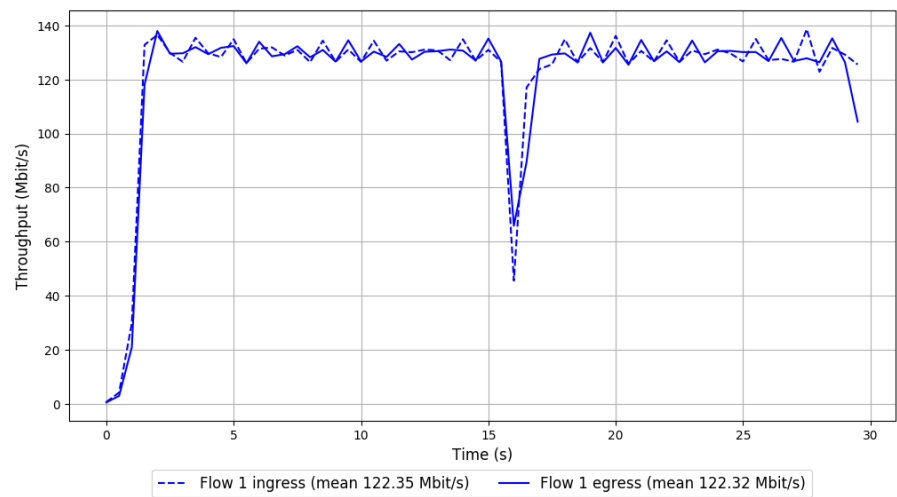
-- Flow 1:

Average throughput: 122.32 Mbit/s

95th percentile per-packet one-way delay: 87.974 ms

Loss rate: 0.61%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 08:04:02

End at: 2018-01-16 08:04:32

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.99 Mbit/s

95th percentile per-packet one-way delay: 88.407 ms

Loss rate: 1.13%

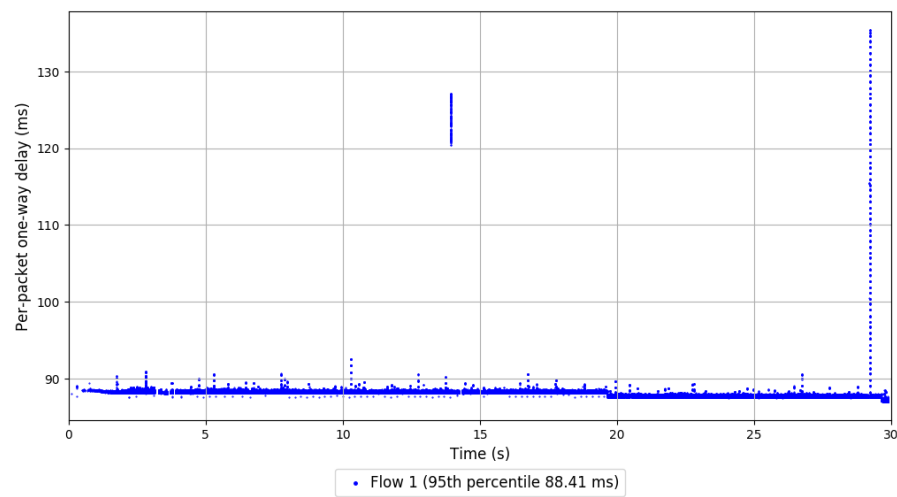
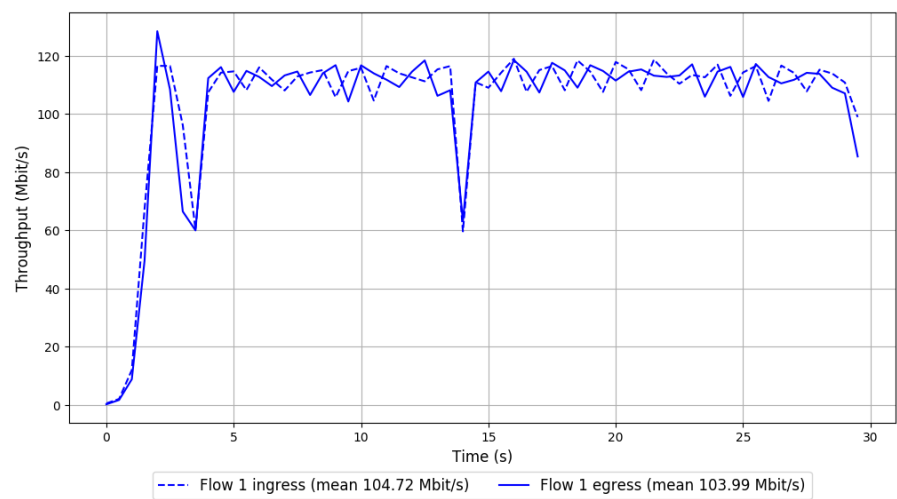
-- Flow 1:

Average throughput: 103.99 Mbit/s

95th percentile per-packet one-way delay: 88.407 ms

Loss rate: 1.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 08:18:49

End at: 2018-01-16 08:19:19

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.11 Mbit/s

95th percentile per-packet one-way delay: 87.657 ms

Loss rate: 0.63%

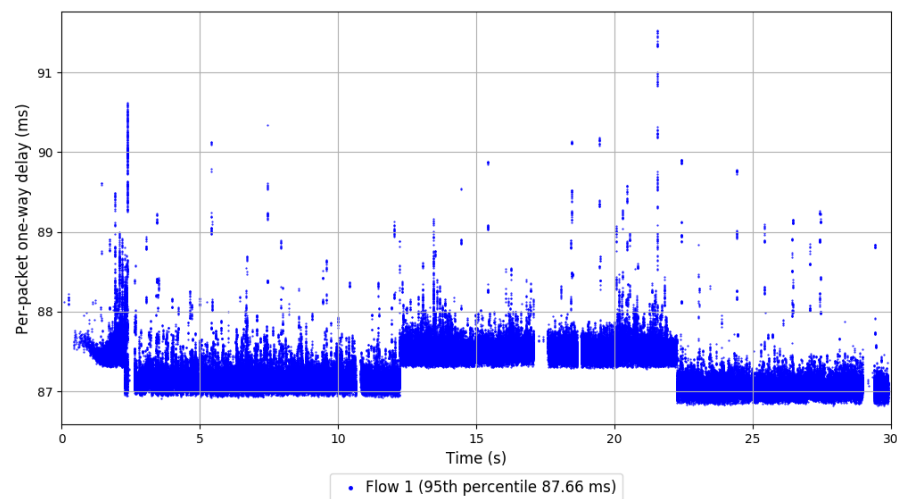
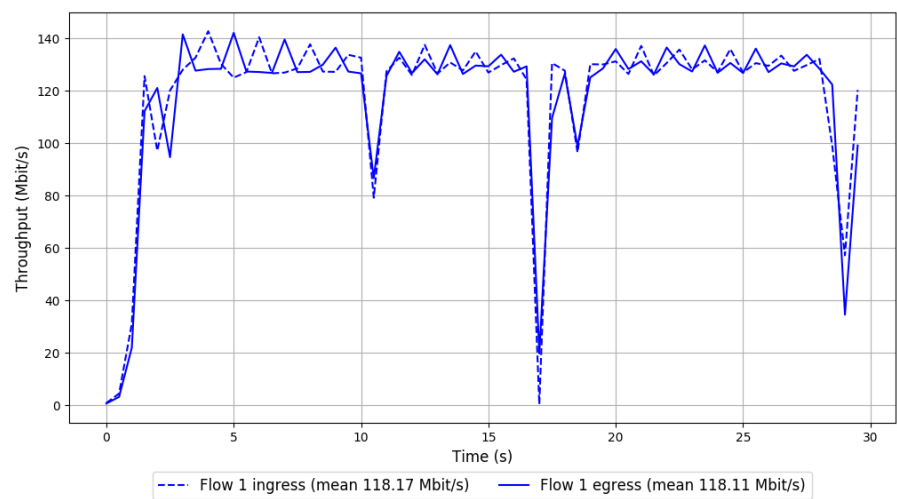
-- Flow 1:

Average throughput: 118.11 Mbit/s

95th percentile per-packet one-way delay: 87.657 ms

Loss rate: 0.63%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 08:33:45

End at: 2018-01-16 08:34:15

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.53 Mbit/s

95th percentile per-packet one-way delay: 87.370 ms

Loss rate: 0.62%

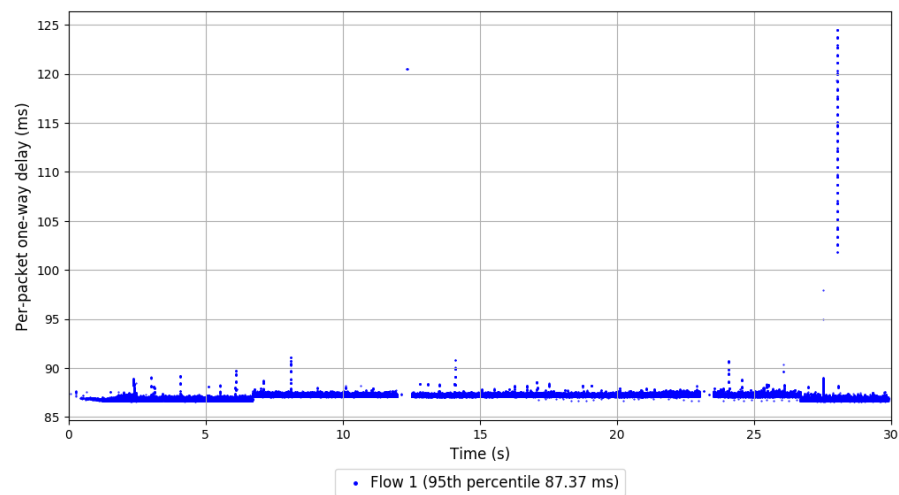
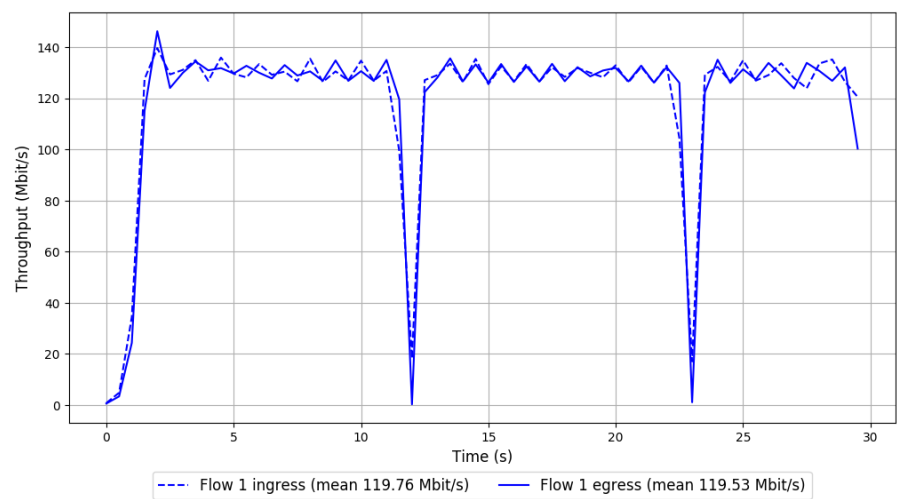
-- Flow 1:

Average throughput: 119.53 Mbit/s

95th percentile per-packet one-way delay: 87.370 ms

Loss rate: 0.62%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 08:48:36

End at: 2018-01-16 08:49:06

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.44%

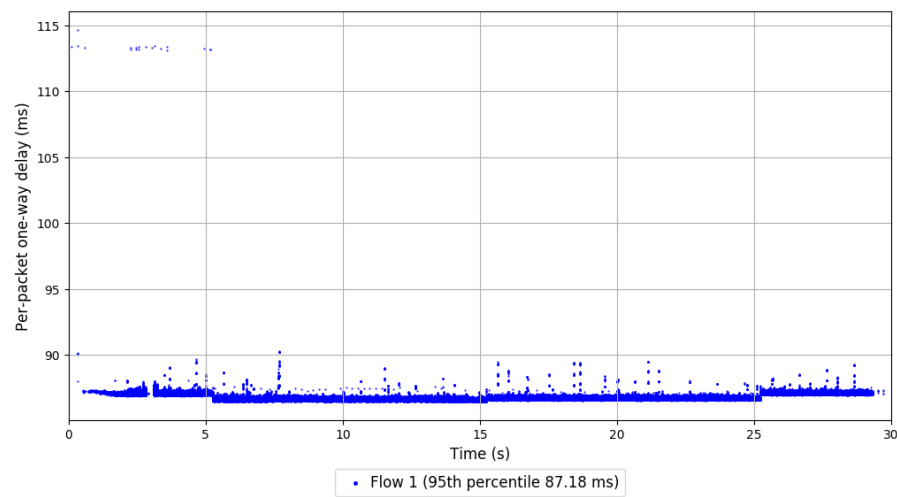
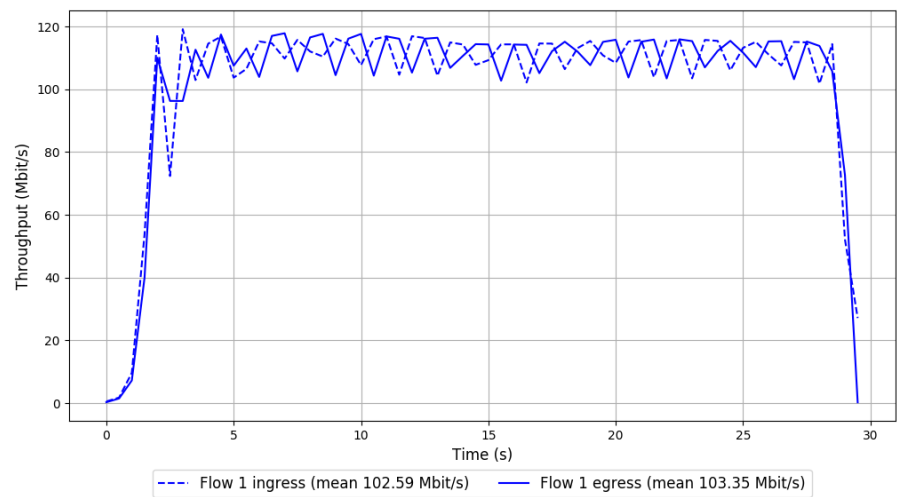
-- Flow 1:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.44%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 09:02:38

End at: 2018-01-16 09:03:08

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.47 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.60%

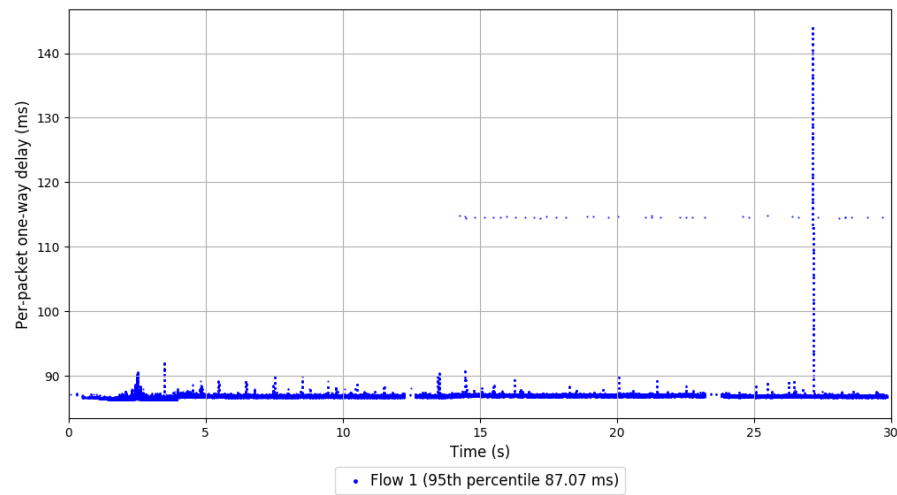
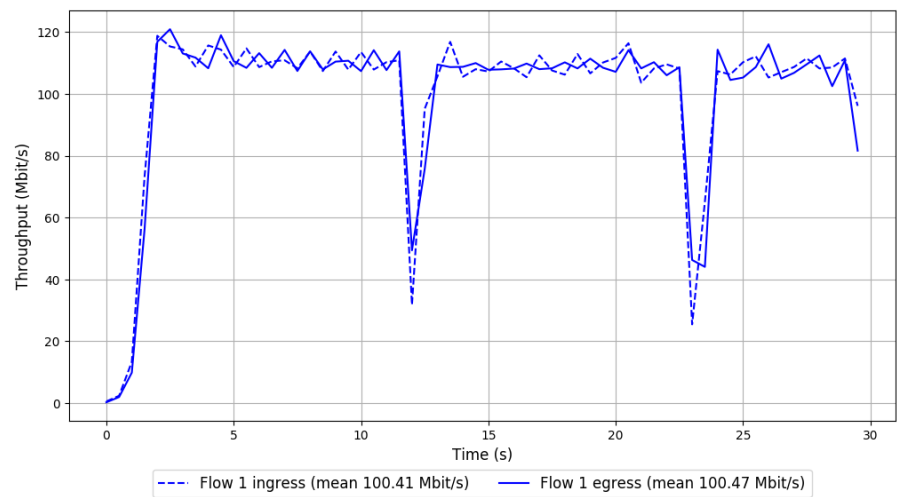
-- Flow 1:

Average throughput: 100.47 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 09:17:55

End at: 2018-01-16 09:18:25

Below is generated by plot.py at 2018-01-16 12:20:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.22 Mbit/s

95th percentile per-packet one-way delay: 114.892 ms

Loss rate: 0.70%

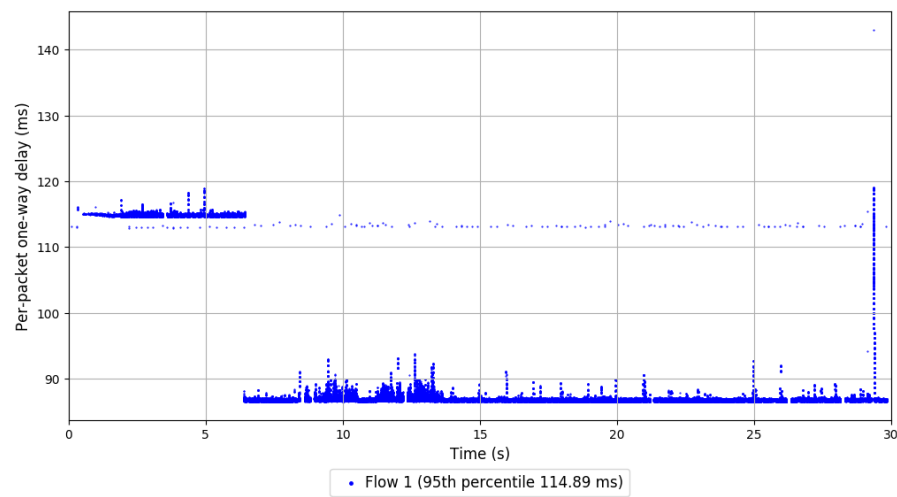
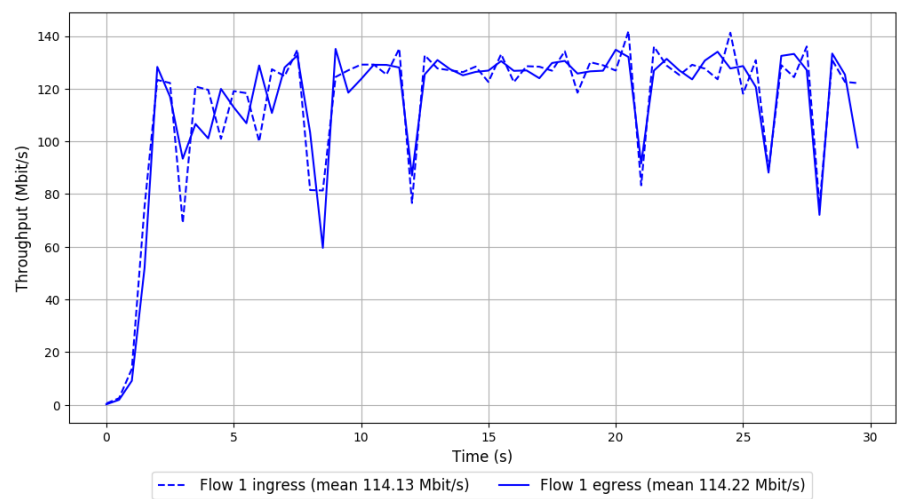
-- Flow 1:

Average throughput: 114.22 Mbit/s

95th percentile per-packet one-way delay: 114.892 ms

Loss rate: 0.70%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 09:32:30

End at: 2018-01-16 09:33:00

Below is generated by plot.py at 2018-01-16 12:22:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.06 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.77%

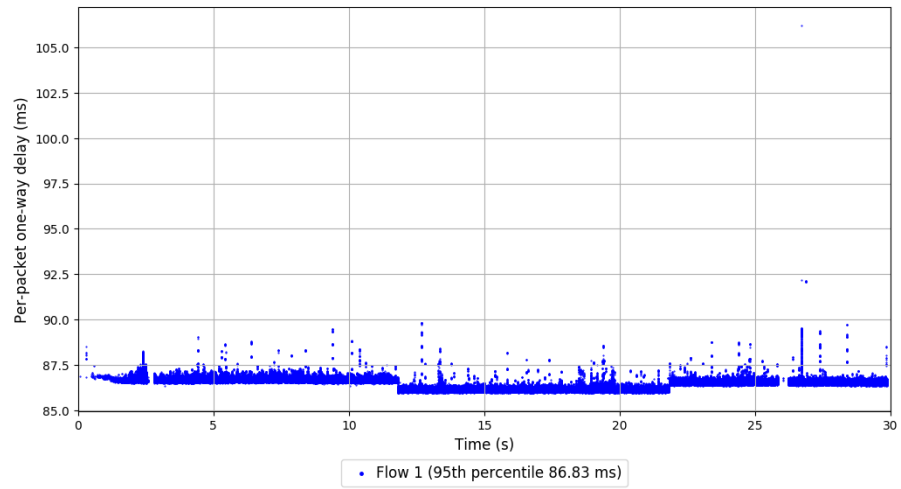
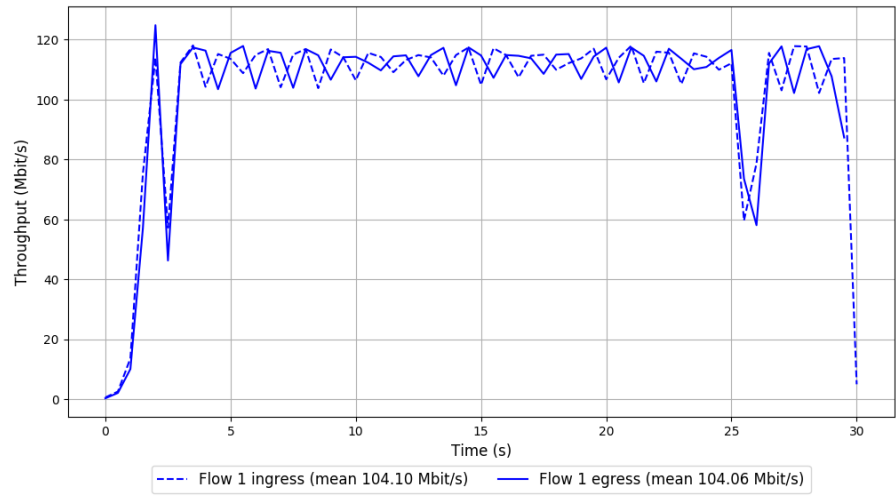
-- Flow 1:

Average throughput: 104.06 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.77%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 09:47:08

End at: 2018-01-16 09:47:38

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.60 Mbit/s

95th percentile per-packet one-way delay: 114.332 ms

Loss rate: 0.66%

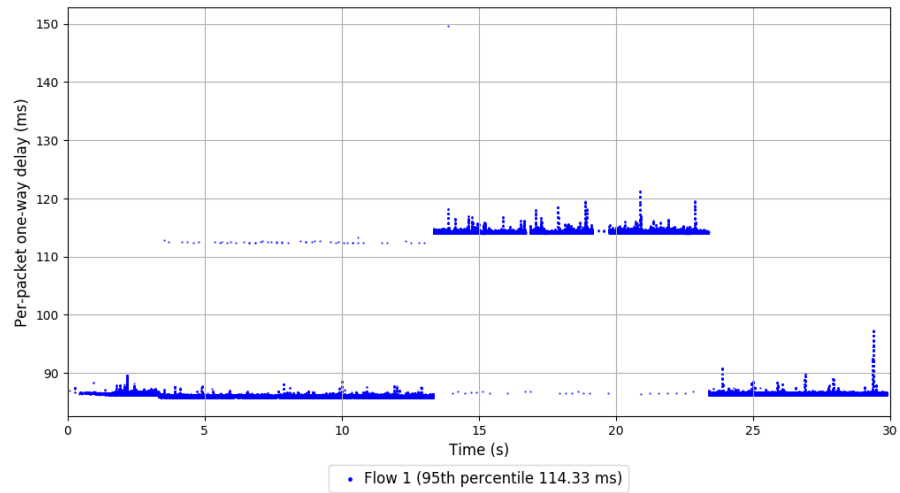
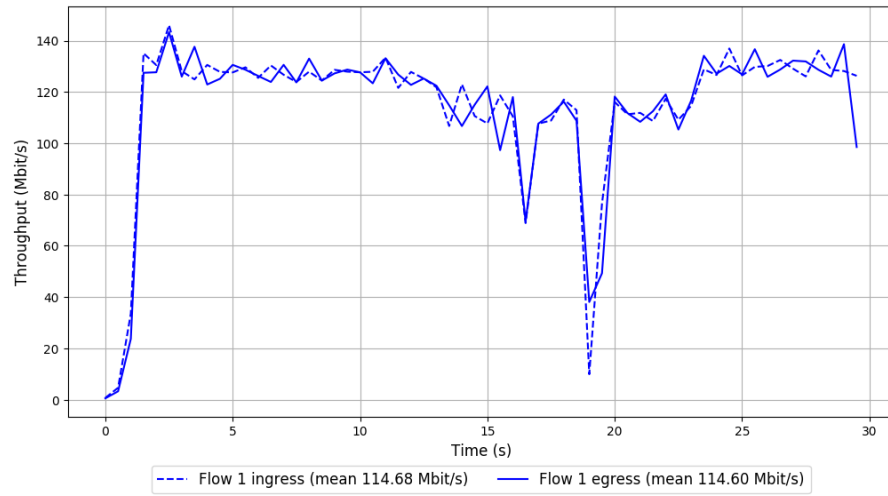
-- Flow 1:

Average throughput: 114.60 Mbit/s

95th percentile per-packet one-way delay: 114.332 ms

Loss rate: 0.66%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 07:28:06

End at: 2018-01-16 07:28:36

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 93.701 ms

Loss rate: 1.28%

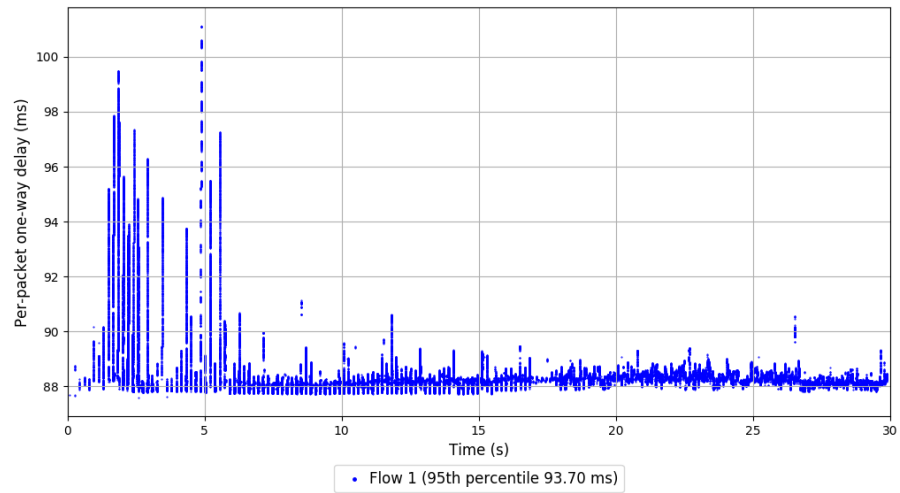
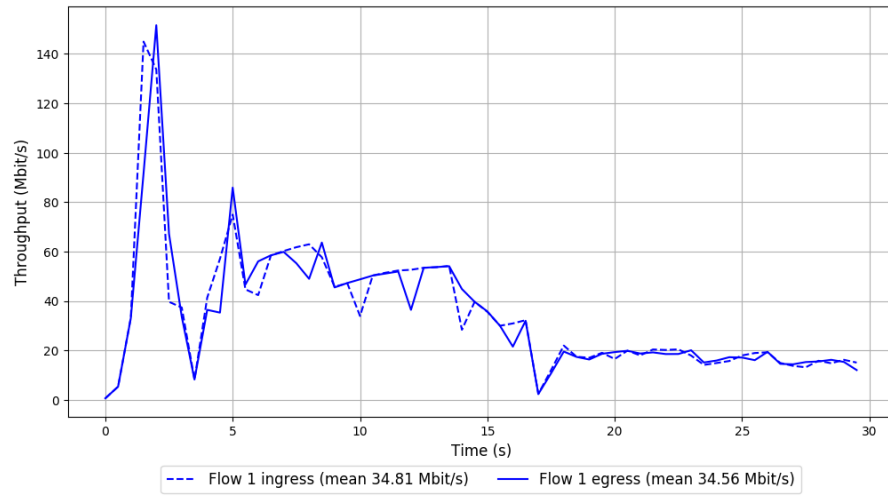
-- Flow 1:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 93.701 ms

Loss rate: 1.28%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 07:43:11

End at: 2018-01-16 07:43:41

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 0.67%

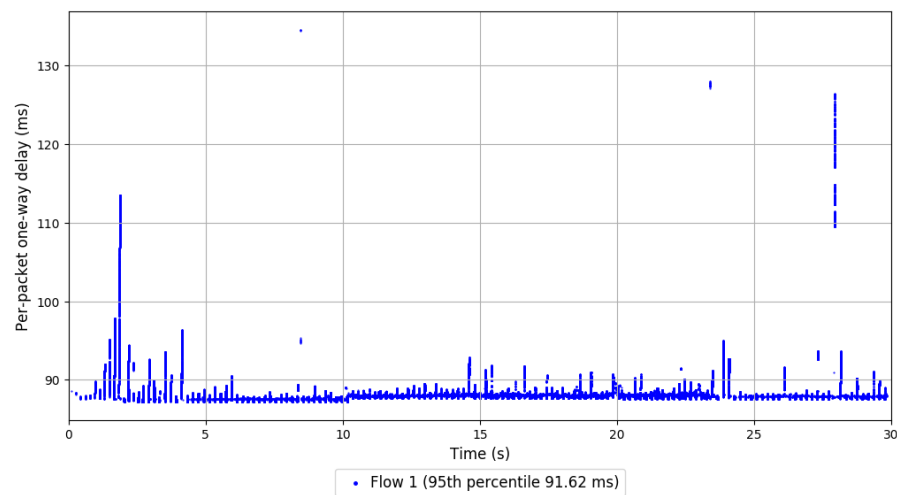
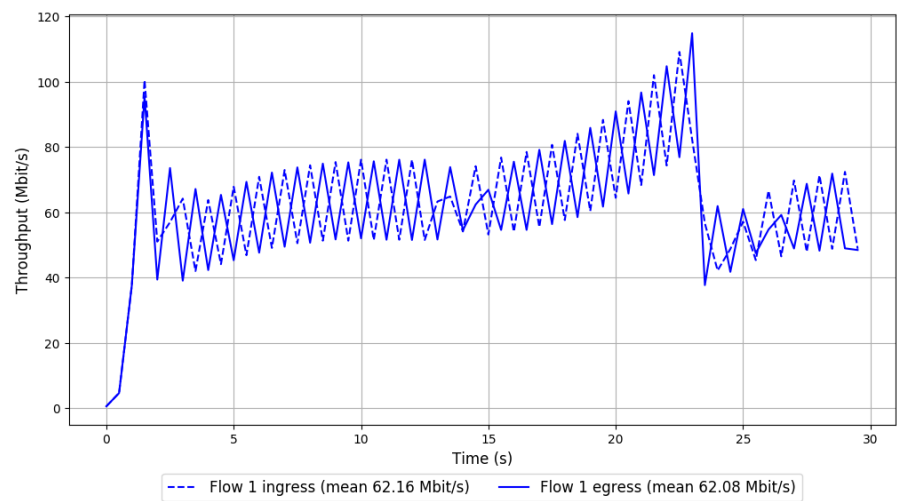
-- Flow 1:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 0.67%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 07:58:42

End at: 2018-01-16 07:59:12

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 88.895 ms

Loss rate: 0.91%

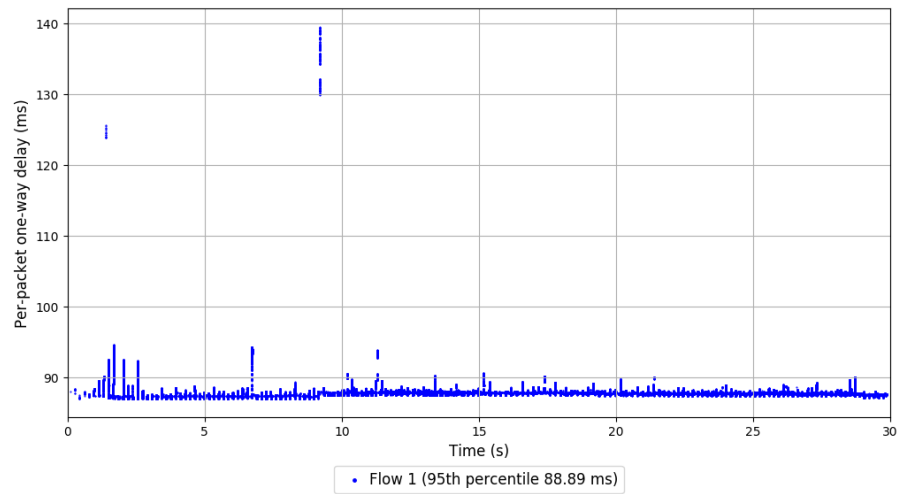
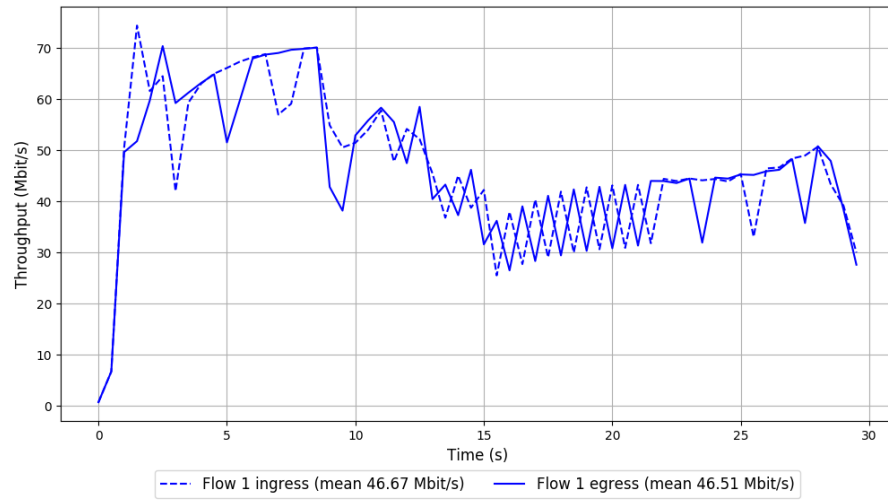
-- Flow 1:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 88.895 ms

Loss rate: 0.91%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 08:13:33

End at: 2018-01-16 08:14:03

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 88.636 ms

Loss rate: 1.25%

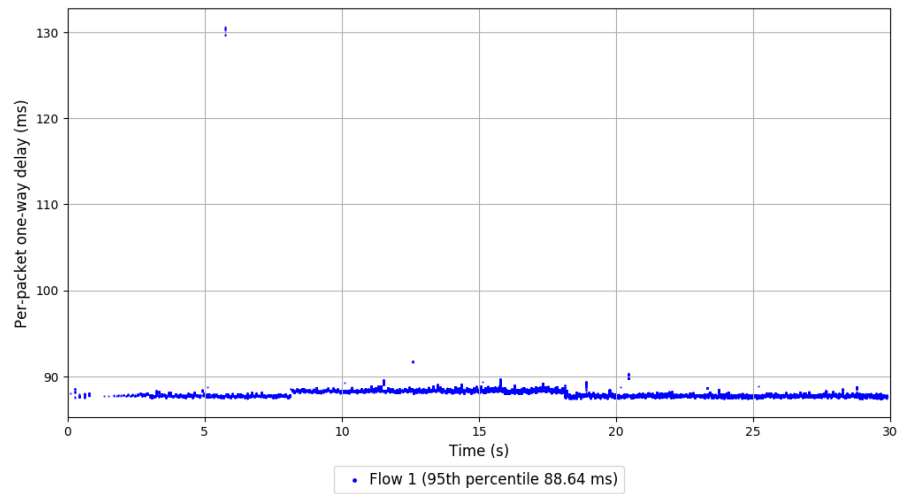
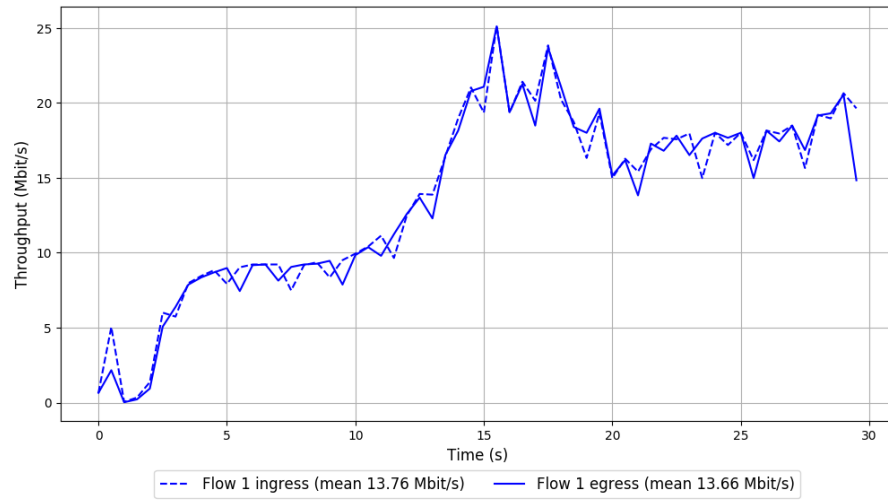
-- Flow 1:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 88.636 ms

Loss rate: 1.25%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 08:28:26

End at: 2018-01-16 08:28:56

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 88.452 ms

Loss rate: 0.75%

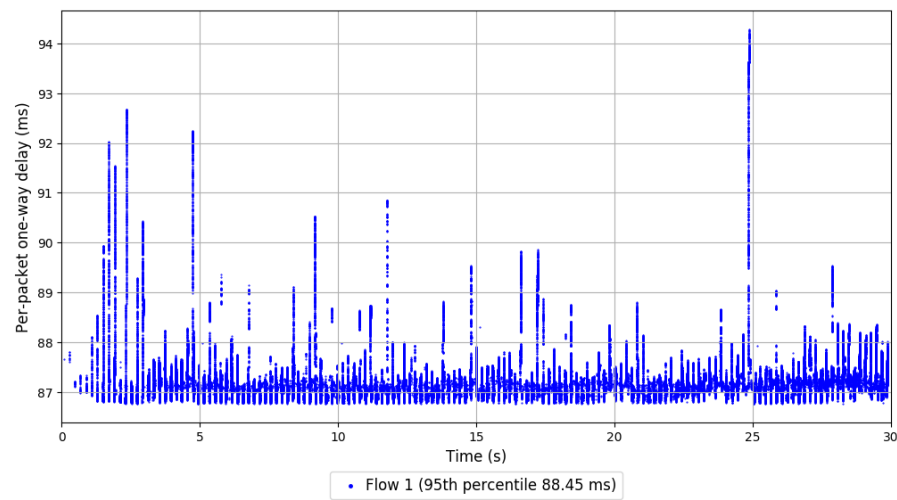
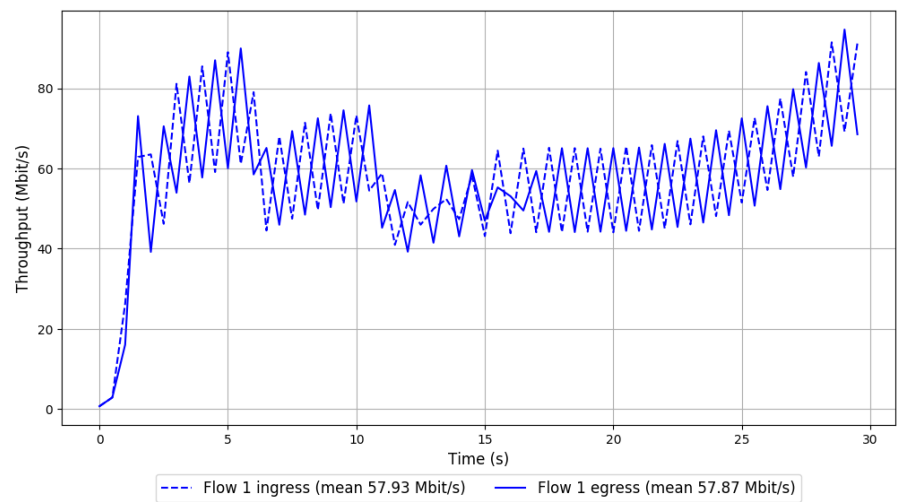
-- Flow 1:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 88.452 ms

Loss rate: 0.75%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 08:43:09

End at: 2018-01-16 08:43:39

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 115.187 ms

Loss rate: 1.78%

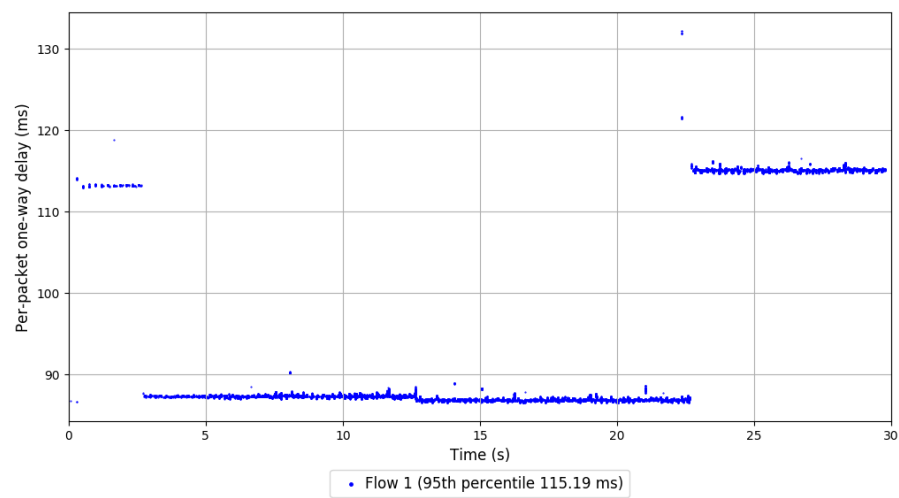
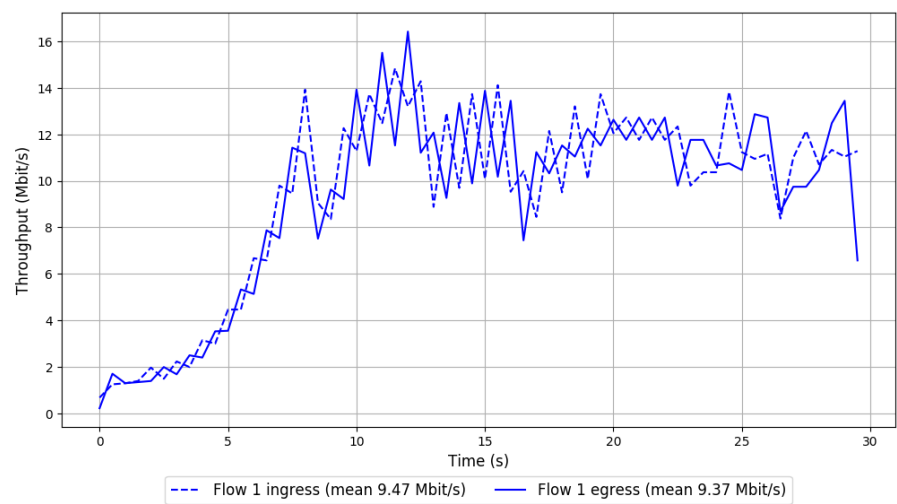
-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 115.187 ms

Loss rate: 1.78%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 08:57:39

End at: 2018-01-16 08:58:09

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 87.879 ms

Loss rate: 1.14%

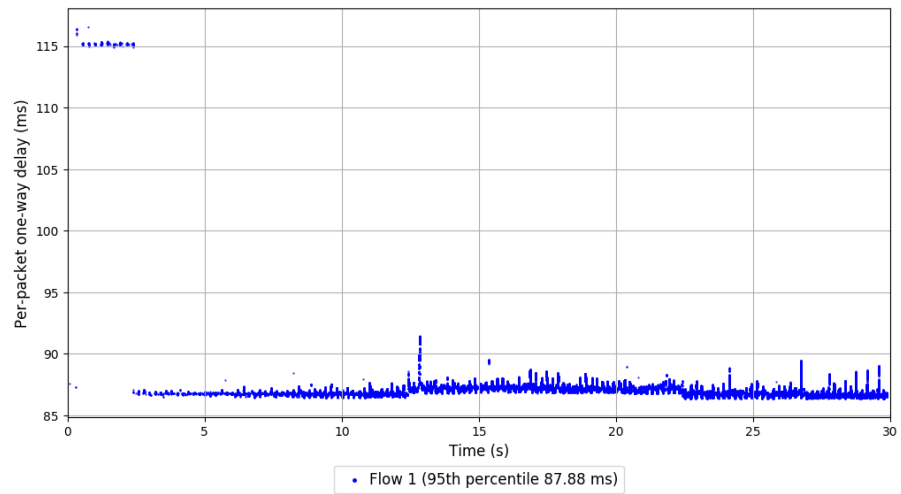
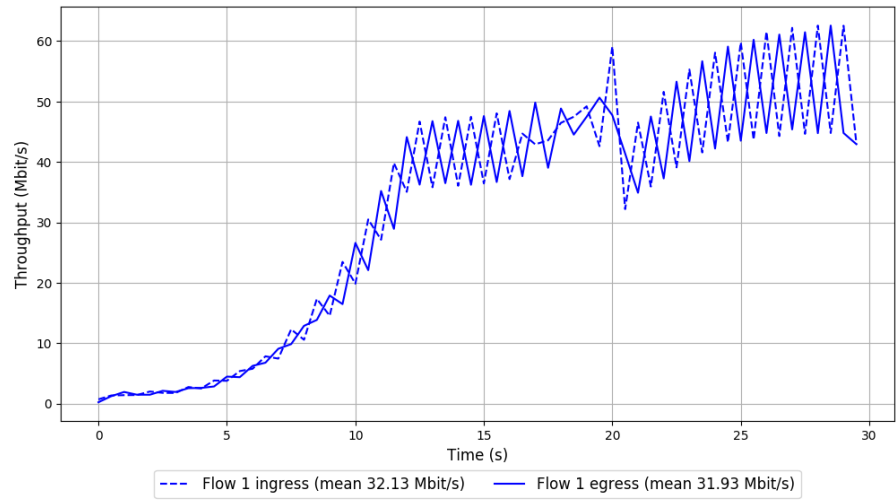
-- Flow 1:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 87.879 ms

Loss rate: 1.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 09:12:23

End at: 2018-01-16 09:12:54

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 0.63%

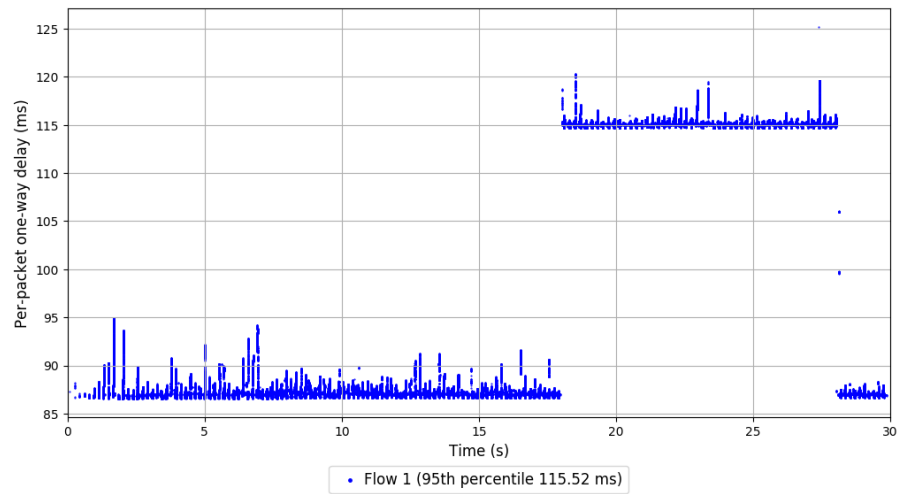
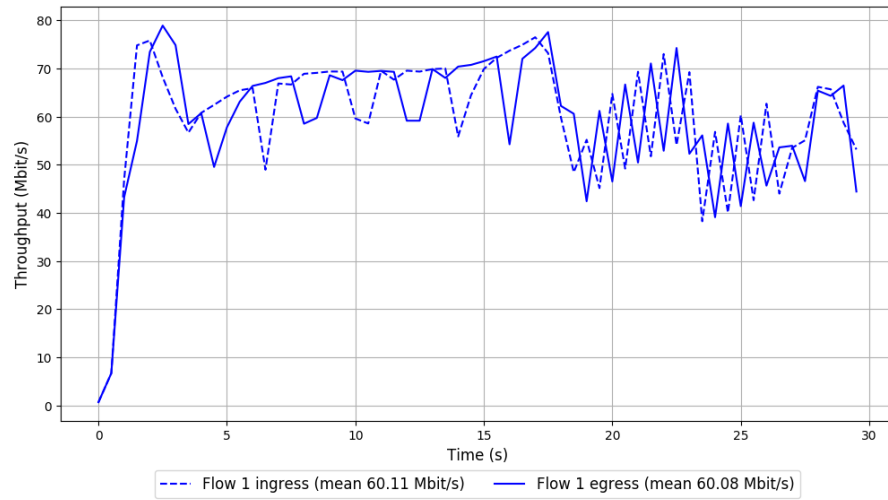
-- Flow 1:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 0.63%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 09:27:07

End at: 2018-01-16 09:27:37

Below is generated by plot.py at 2018-01-16 12:22:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.38%

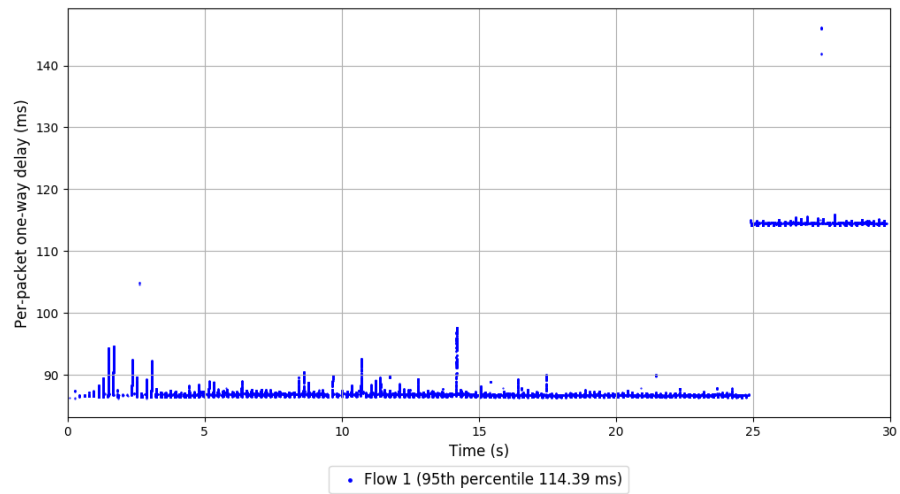
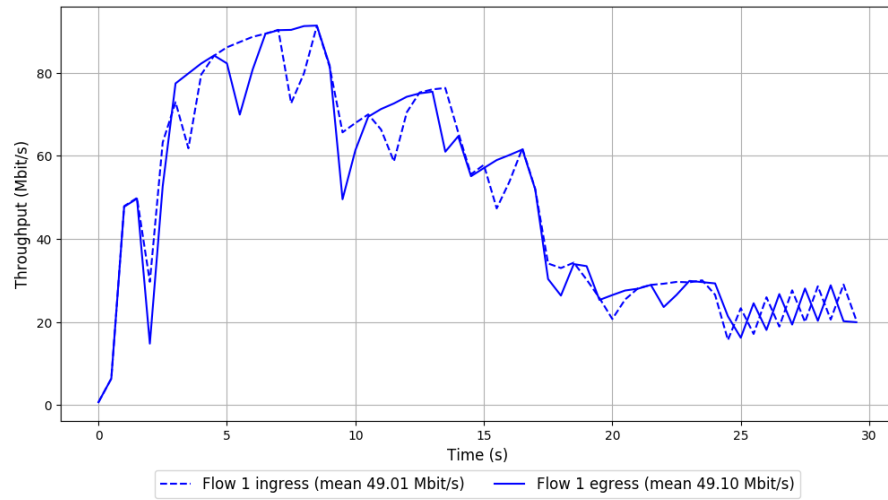
-- Flow 1:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 09:41:29

End at: 2018-01-16 09:41:59

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 89.499 ms

Loss rate: 1.64%

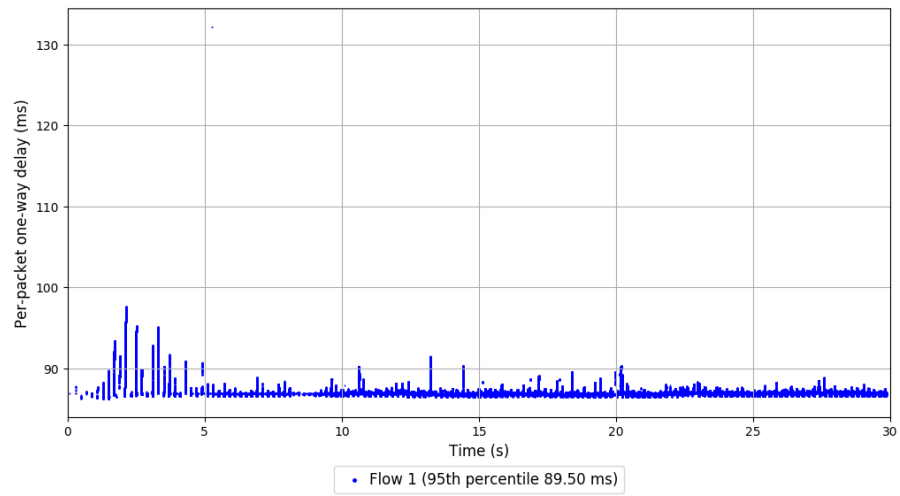
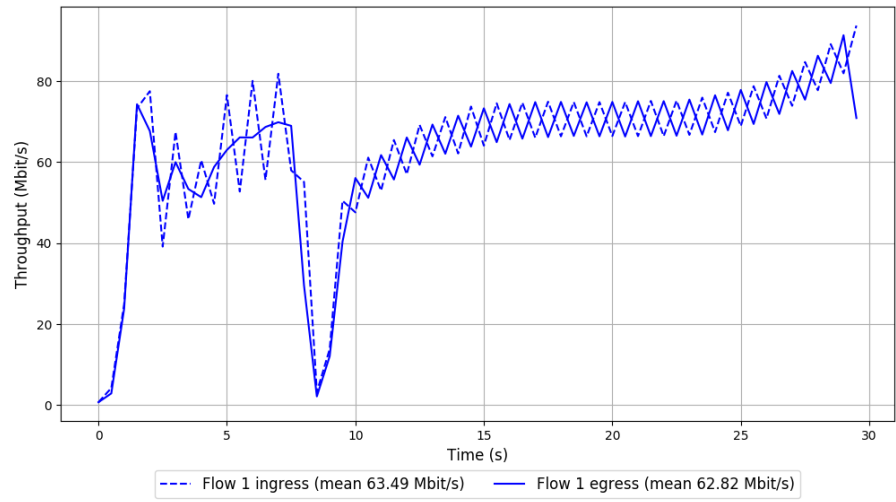
-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 89.499 ms

Loss rate: 1.64%

Run 10: Report of TCP Cubic — Data Link

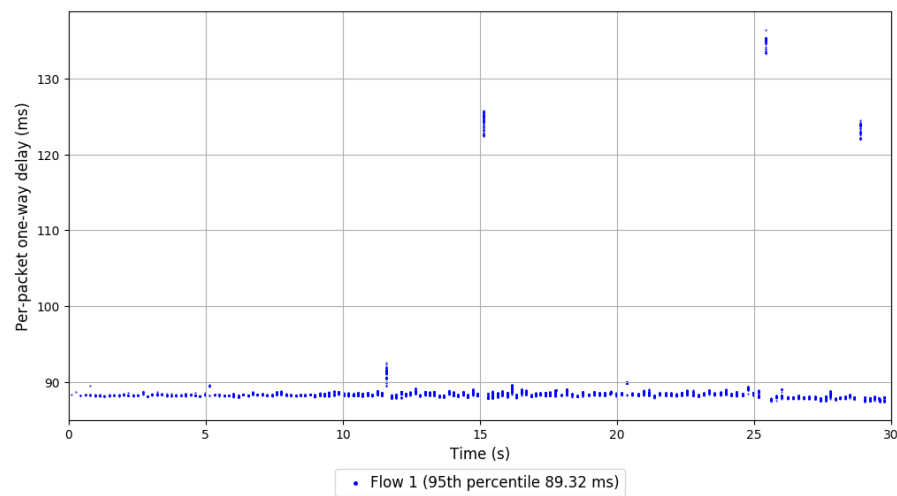
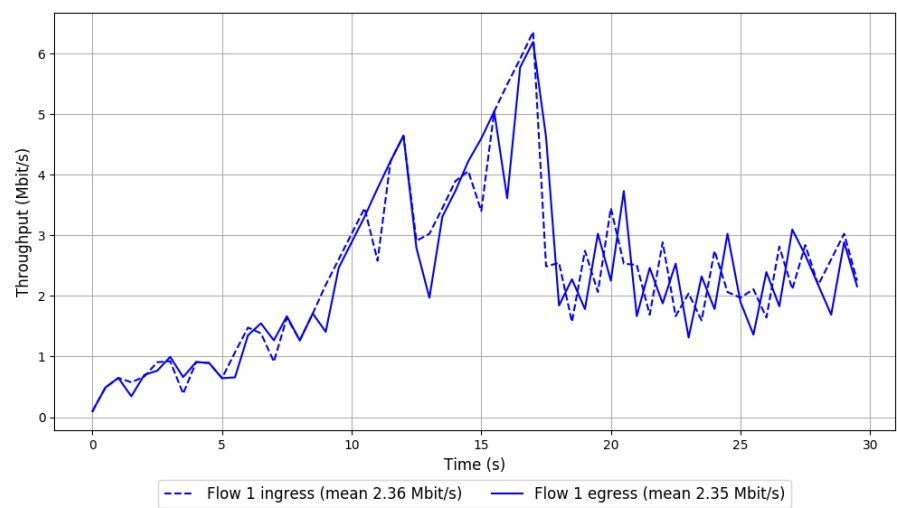


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 07:27:26
End at: 2018-01-16 07:27:56

# Below is generated by plot.py at 2018-01-16 12:22:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 89.316 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 89.316 ms
Loss rate: 1.25%
```


Run 1: Report of LEDBAT — Data Link

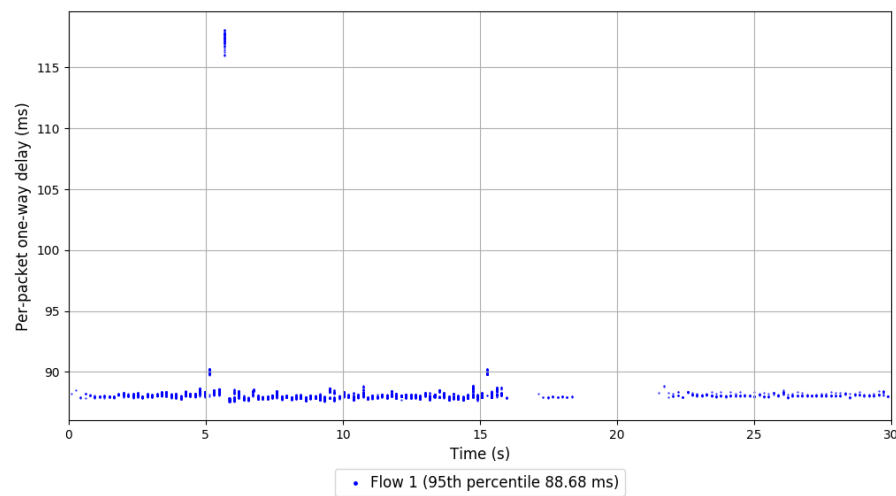
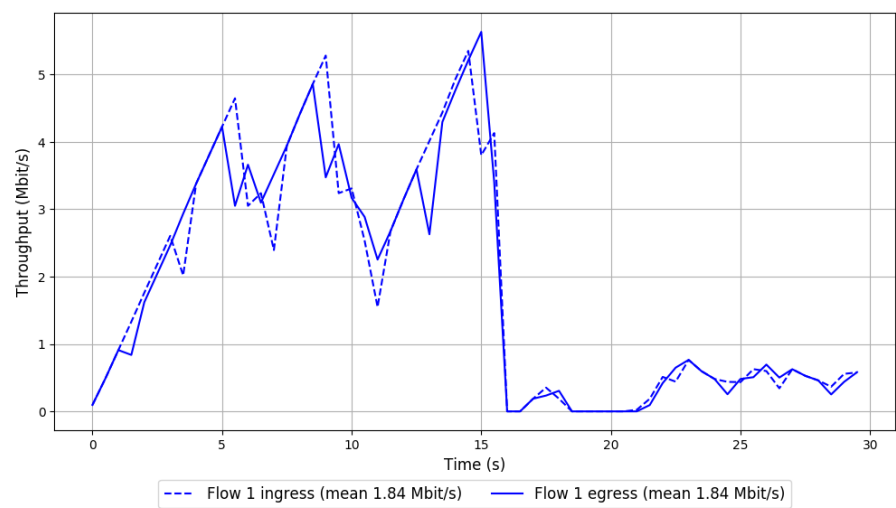


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 07:42:32
End at: 2018-01-16 07:43:02

# Below is generated by plot.py at 2018-01-16 12:22:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 88.684 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 88.684 ms
Loss rate: 1.01%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 07:58:03

End at: 2018-01-16 07:58:33

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 88.428 ms

Loss rate: 0.82%

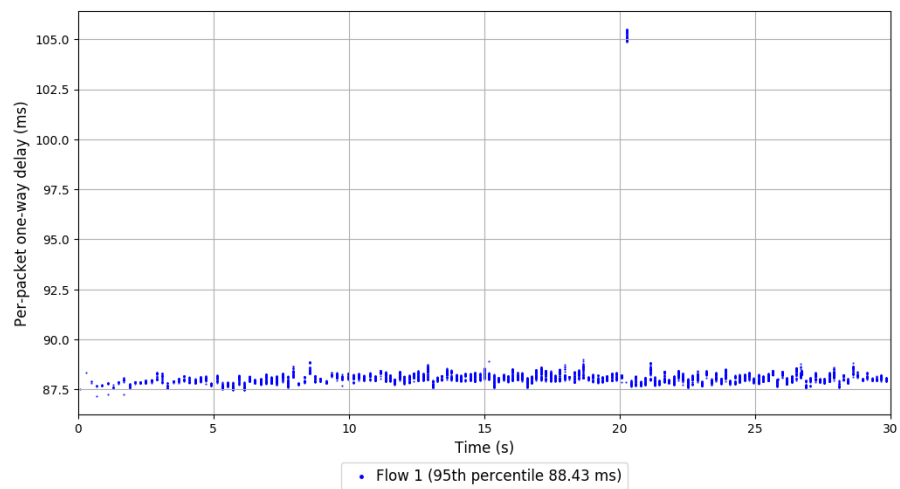
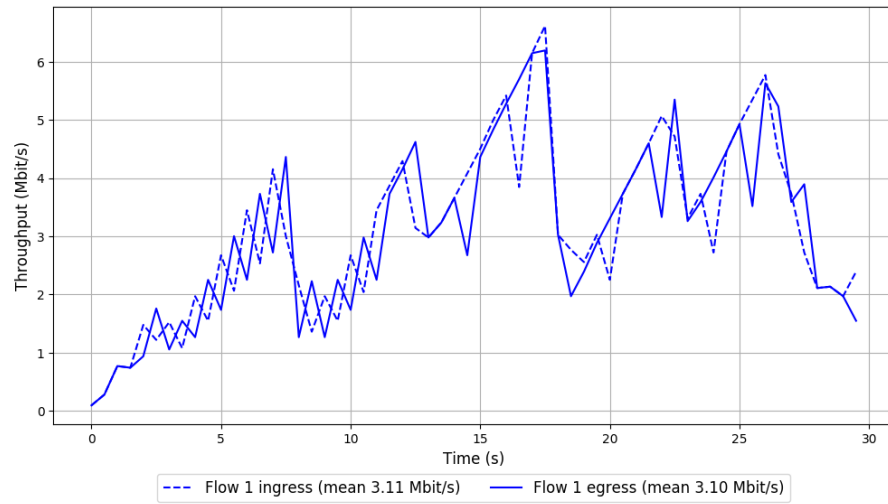
-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 88.428 ms

Loss rate: 0.82%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 08:12:54

End at: 2018-01-16 08:13:24

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 88.808 ms

Loss rate: 0.64%

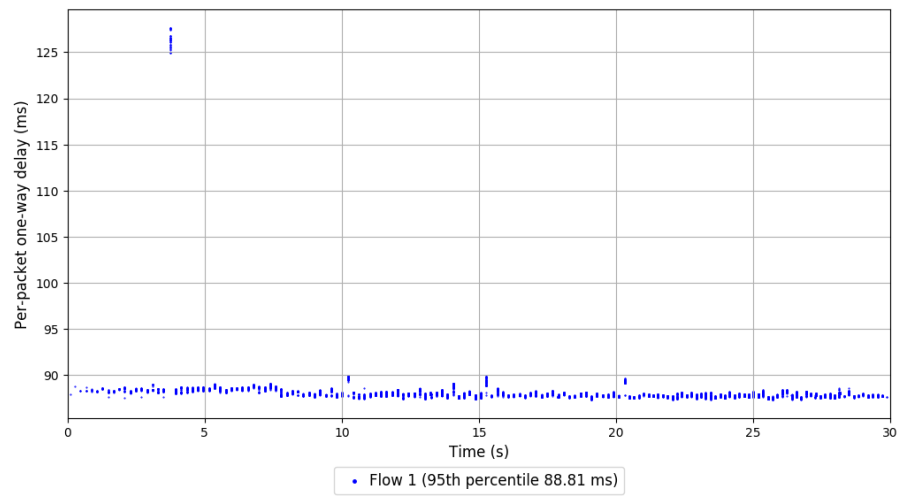
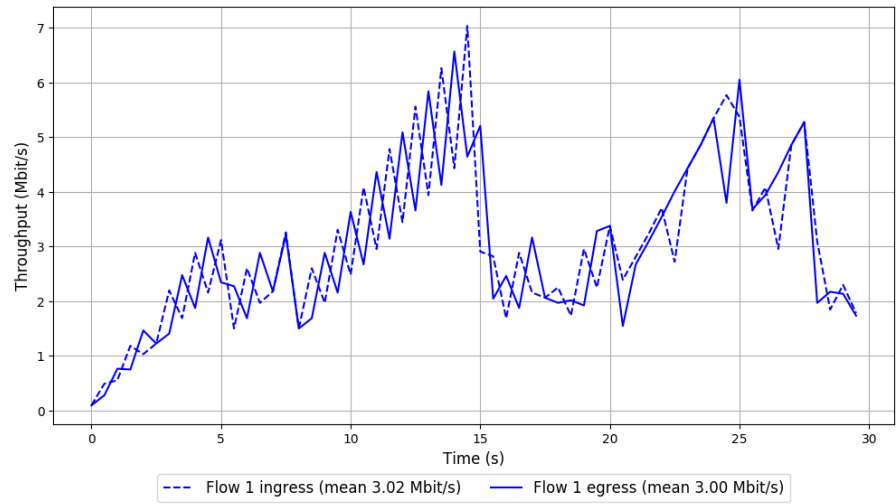
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 88.808 ms

Loss rate: 0.64%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 08:27:47

End at: 2018-01-16 08:28:17

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 0.21%

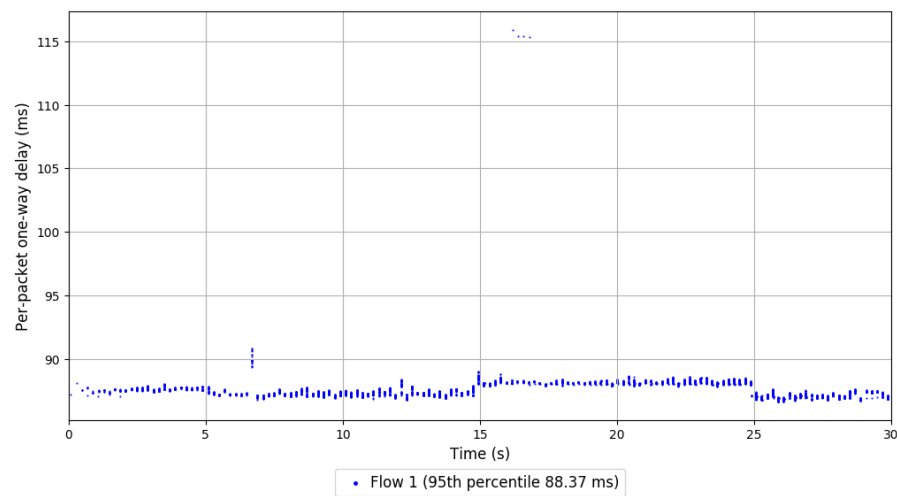
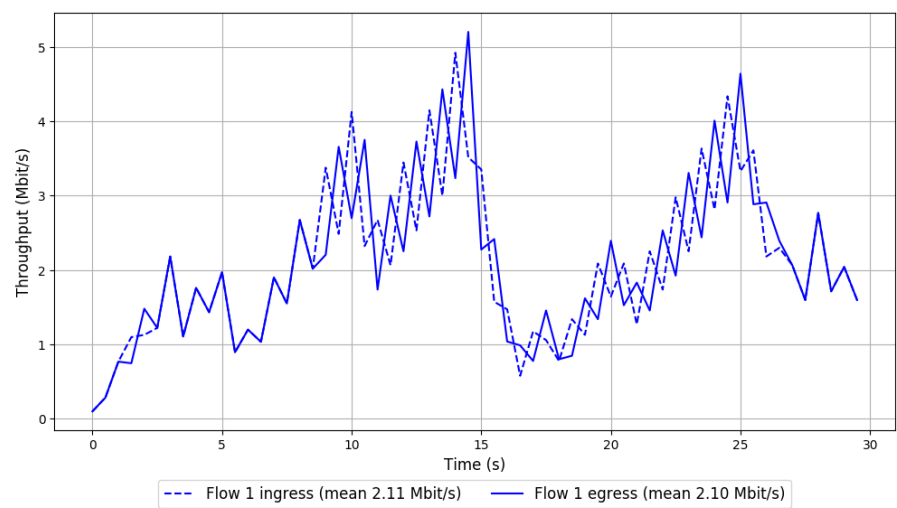
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link

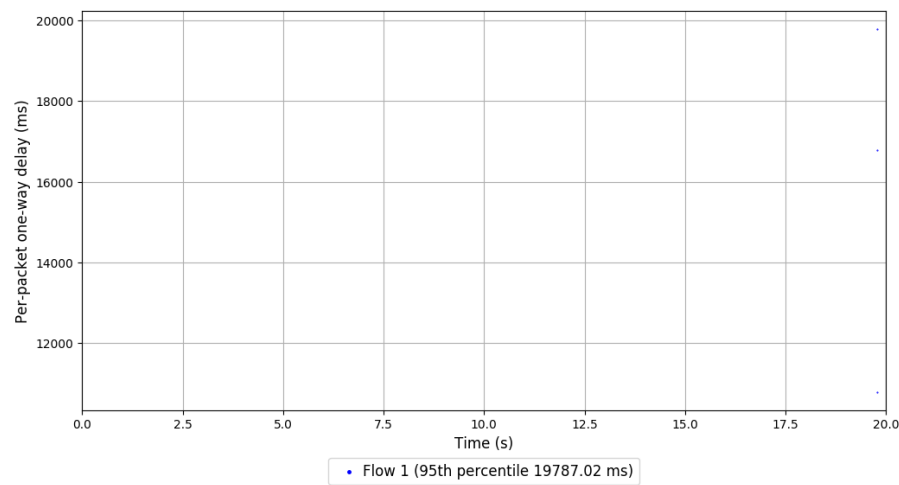
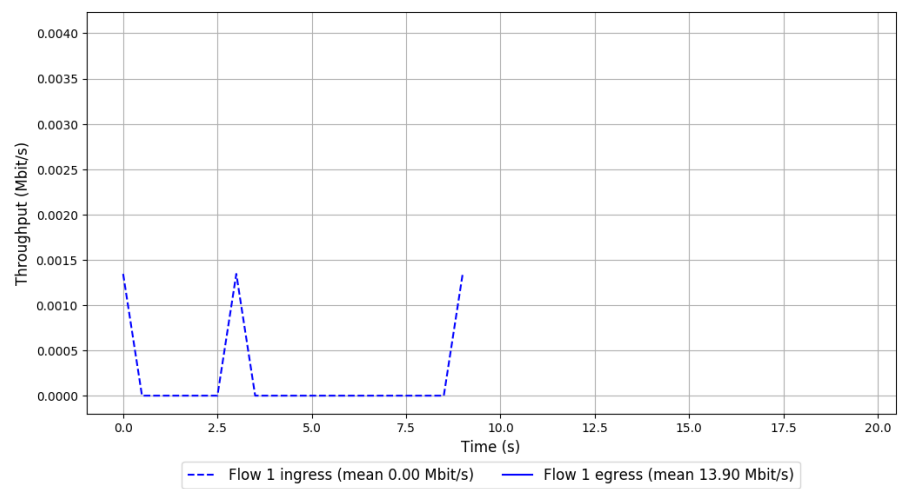


Run 6: Statistics of LEDBAT

Start at: 2018-01-16 08:42:30

End at: 2018-01-16 08:43:00

Run 6: Report of LEDBAT — Data Link

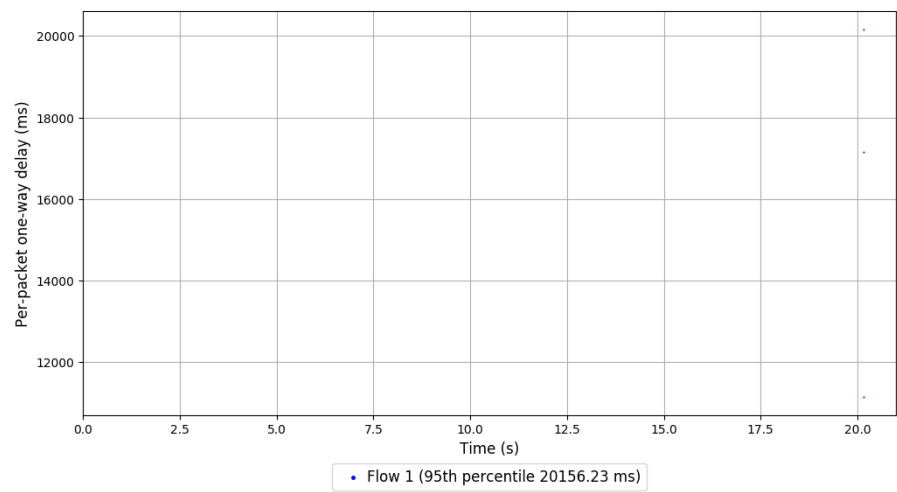
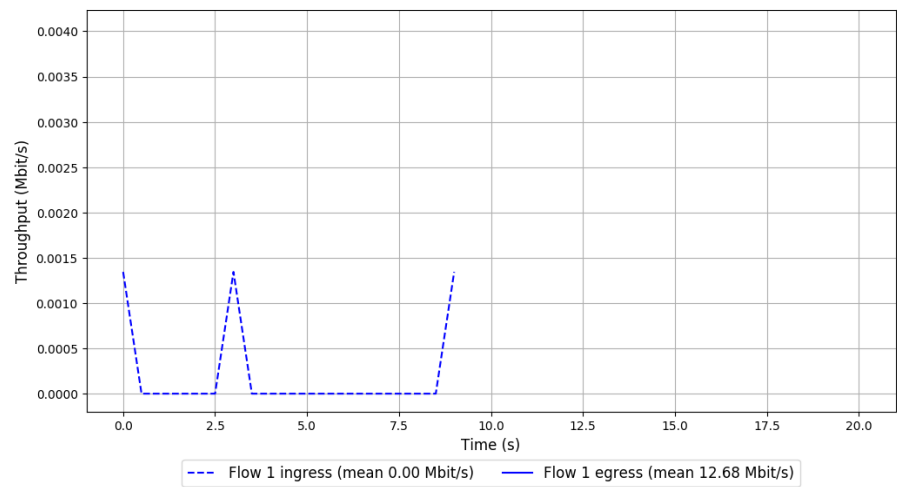


Run 7: Statistics of LEDBAT

Start at: 2018-01-16 08:57:00

End at: 2018-01-16 08:57:30

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 09:11:43

End at: 2018-01-16 09:12:13

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 87.676 ms

Loss rate: 1.92%

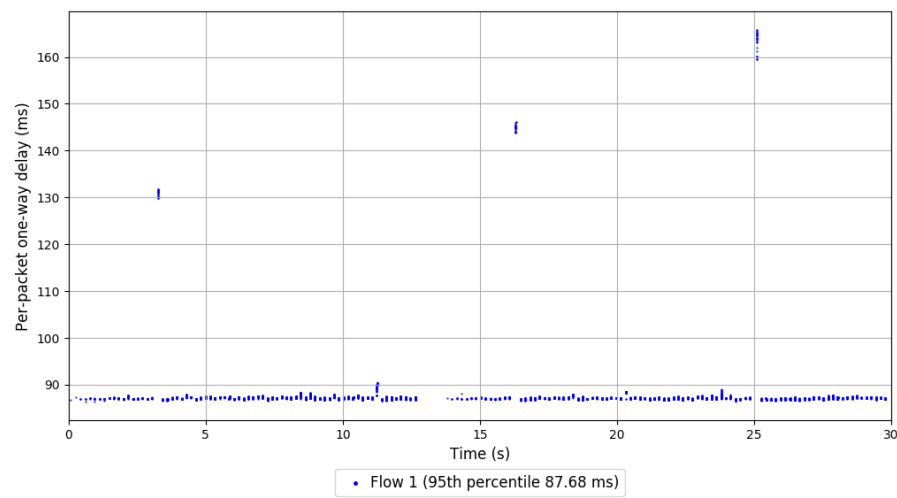
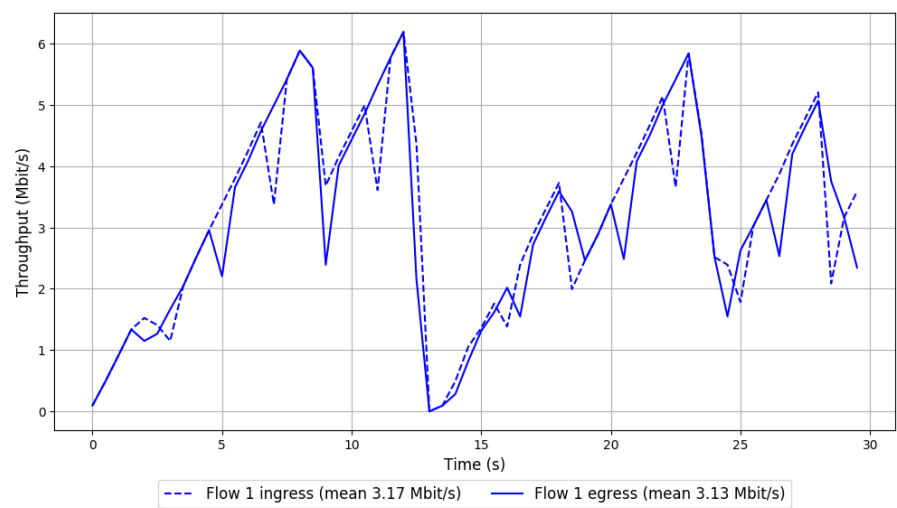
-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 87.676 ms

Loss rate: 1.92%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 09:26:27

End at: 2018-01-16 09:26:57

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.73%

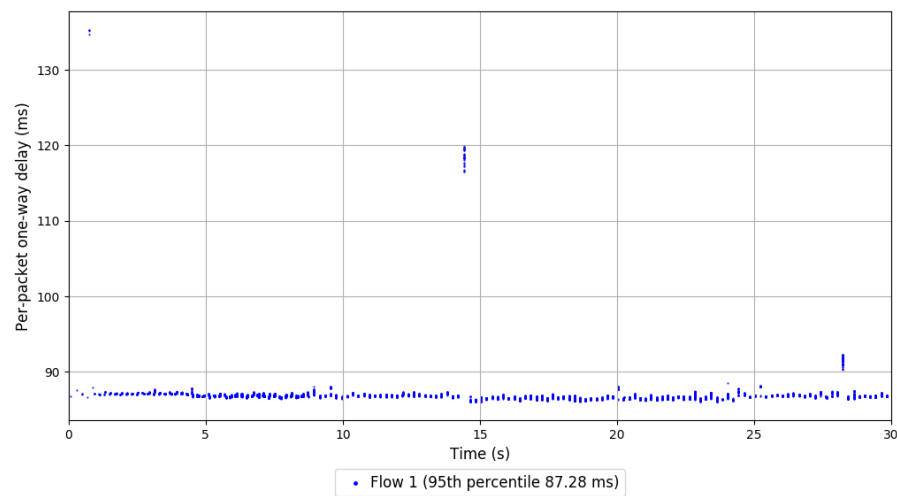
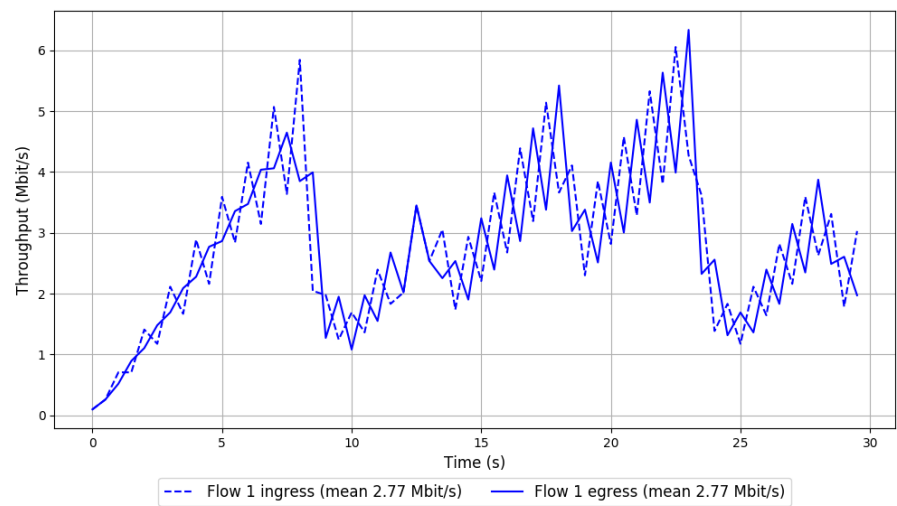
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.73%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 09:40:50

End at: 2018-01-16 09:41:20

Below is generated by plot.py at 2018-01-16 12:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 88.192 ms

Loss rate: 2.22%

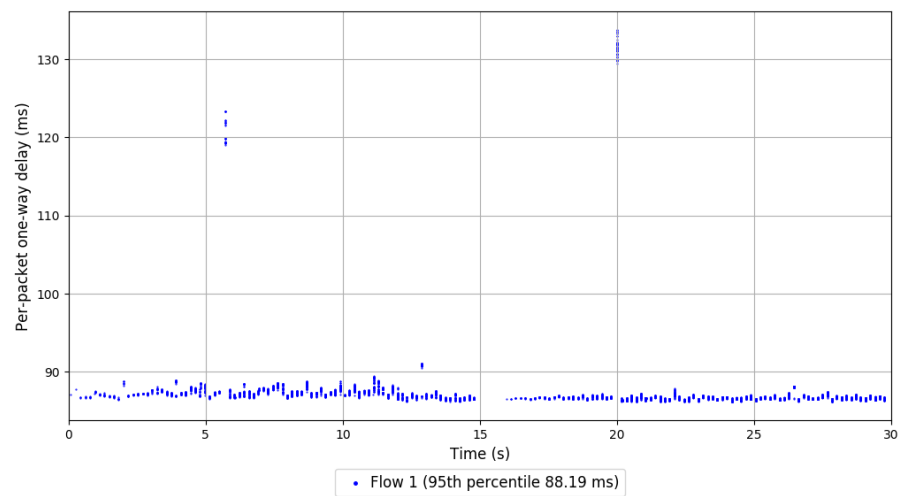
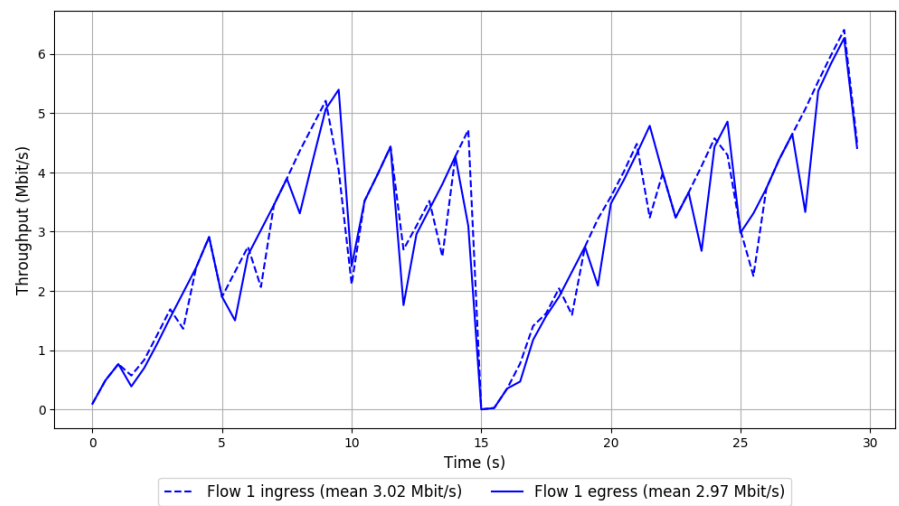
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 88.192 ms

Loss rate: 2.22%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-01-16 07:28:48

End at: 2018-01-16 07:29:18

Below is generated by plot.py at 2018-01-16 12:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.16 Mbit/s

95th percentile per-packet one-way delay: 122.619 ms

Loss rate: 1.92%

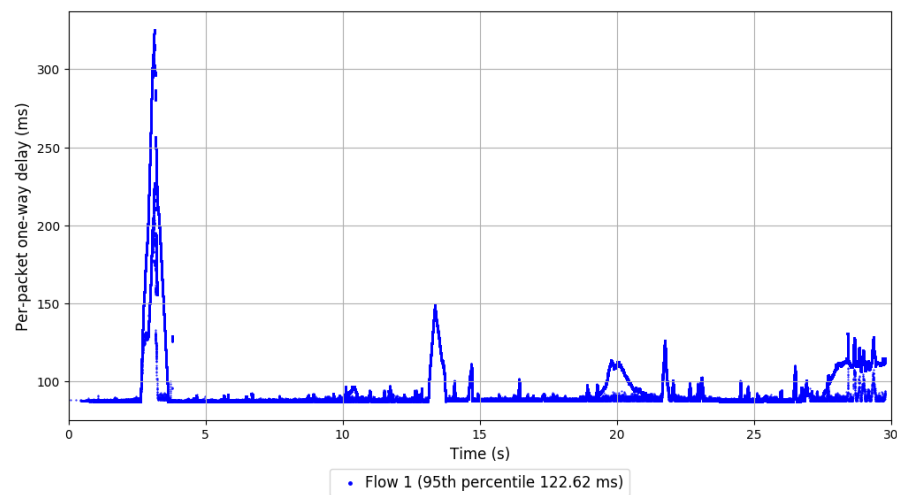
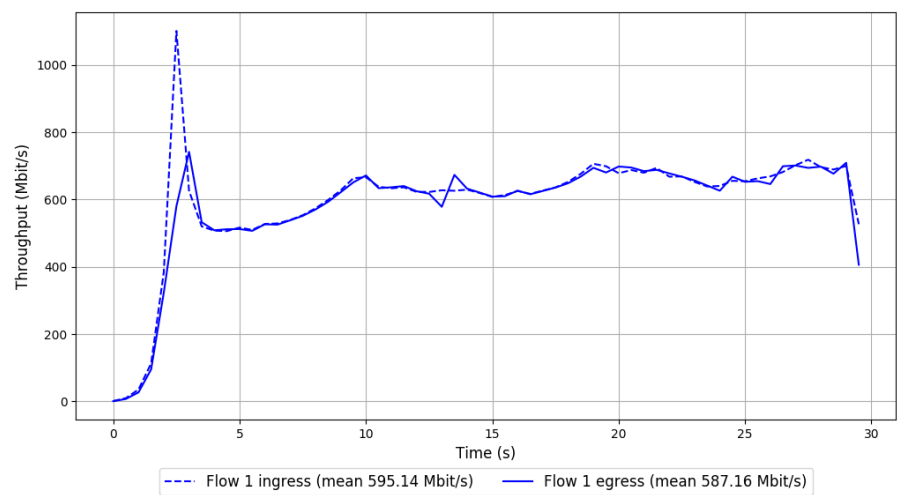
-- Flow 1:

Average throughput: 587.16 Mbit/s

95th percentile per-packet one-way delay: 122.619 ms

Loss rate: 1.92%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 07:43:54

End at: 2018-01-16 07:44:24

Below is generated by plot.py at 2018-01-16 12:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.79 Mbit/s

95th percentile per-packet one-way delay: 111.107 ms

Loss rate: 1.82%

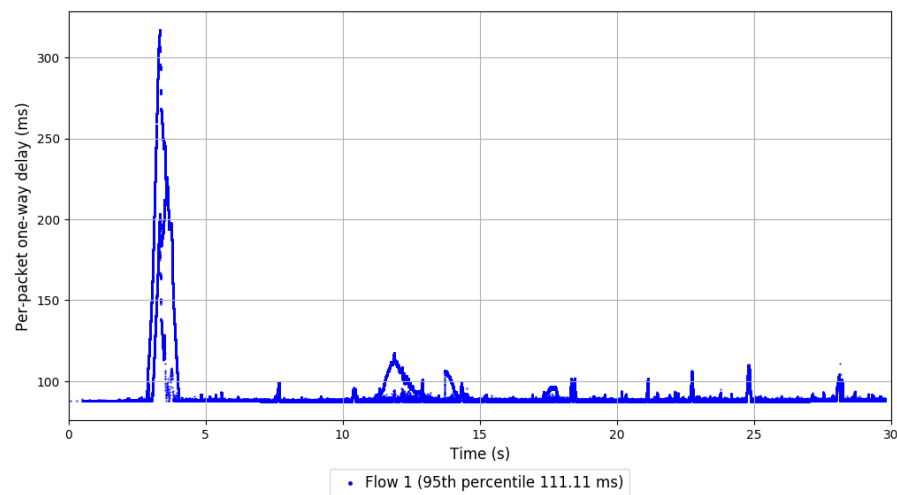
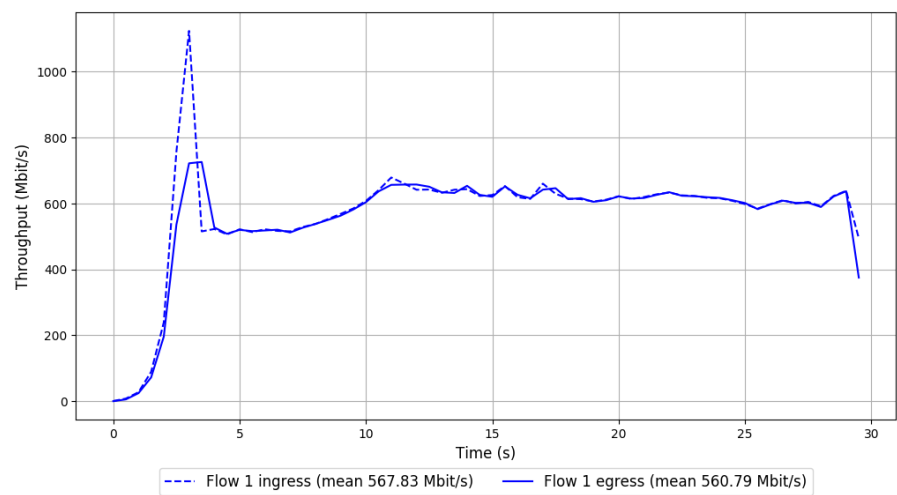
-- Flow 1:

Average throughput: 560.79 Mbit/s

95th percentile per-packet one-way delay: 111.107 ms

Loss rate: 1.82%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 07:59:25

End at: 2018-01-16 07:59:55

Below is generated by plot.py at 2018-01-16 12:32:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.59 Mbit/s

95th percentile per-packet one-way delay: 174.851 ms

Loss rate: 1.07%

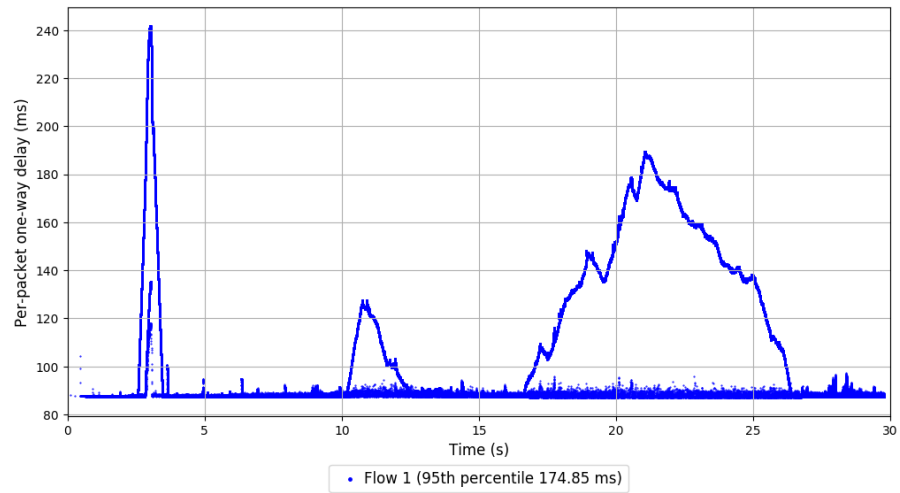
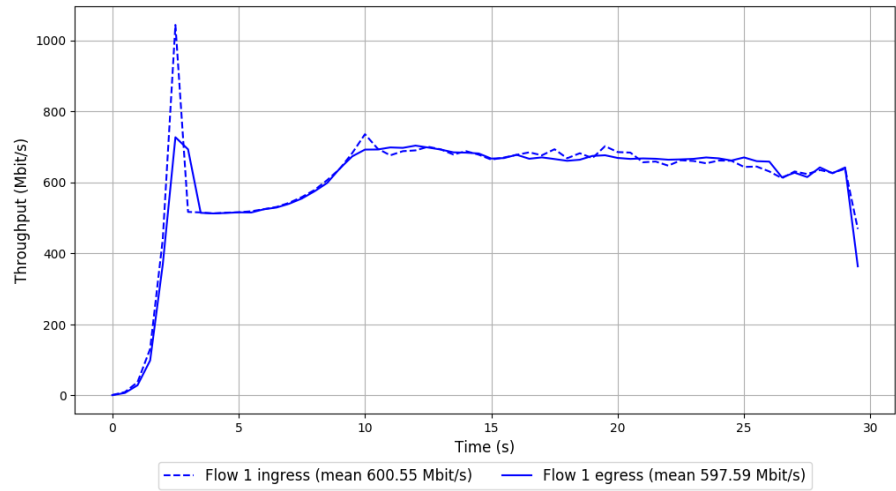
-- Flow 1:

Average throughput: 597.59 Mbit/s

95th percentile per-packet one-way delay: 174.851 ms

Loss rate: 1.07%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 08:14:14

End at: 2018-01-16 08:14:44

Below is generated by plot.py at 2018-01-16 12:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.72 Mbit/s

95th percentile per-packet one-way delay: 202.699 ms

Loss rate: 2.48%

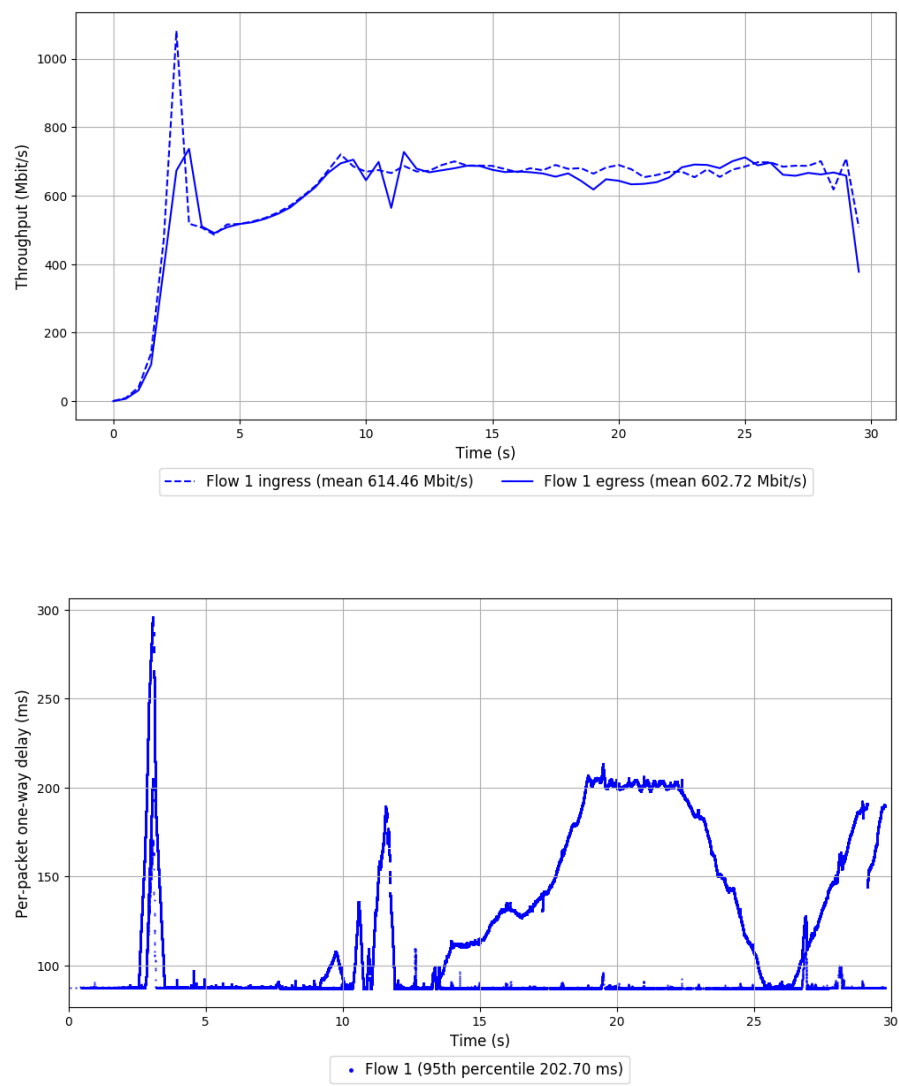
-- Flow 1:

Average throughput: 602.72 Mbit/s

95th percentile per-packet one-way delay: 202.699 ms

Loss rate: 2.48%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 08:29:09

End at: 2018-01-16 08:29:39

Below is generated by plot.py at 2018-01-16 12:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.25 Mbit/s

95th percentile per-packet one-way delay: 164.026 ms

Loss rate: 1.51%

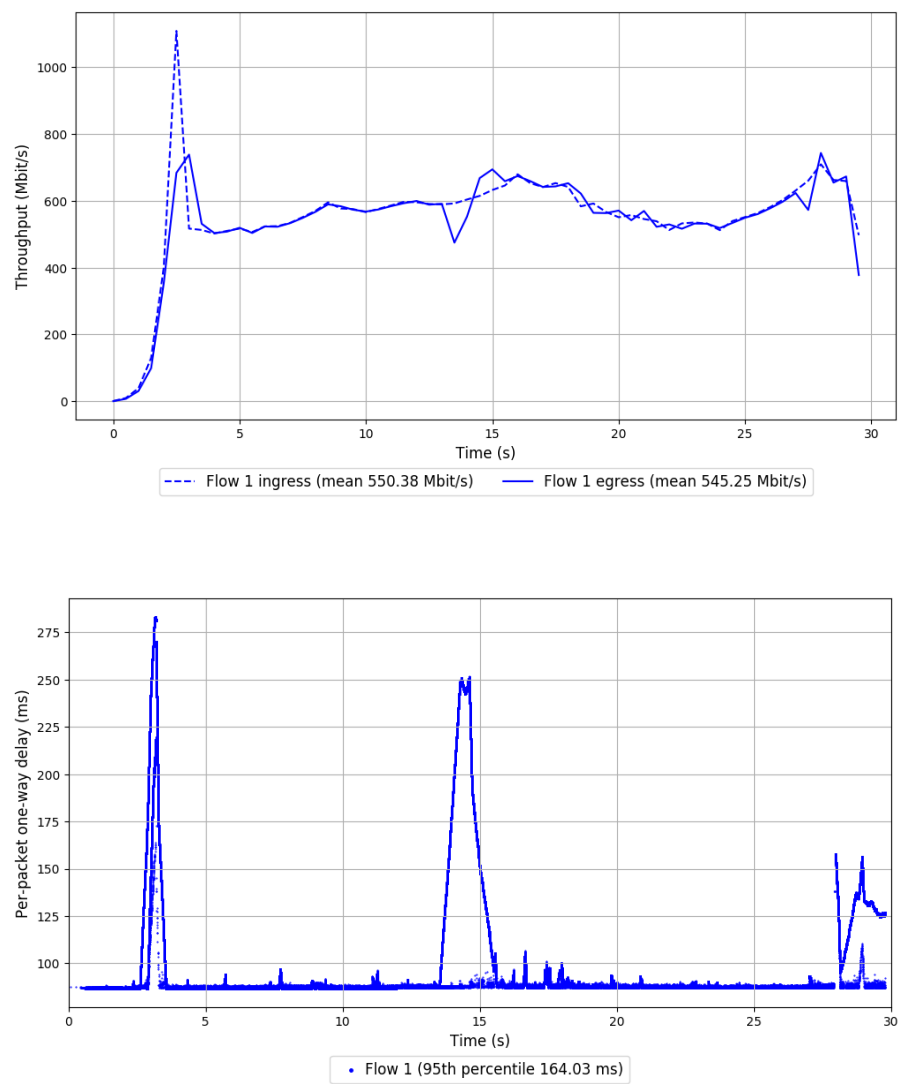
-- Flow 1:

Average throughput: 545.25 Mbit/s

95th percentile per-packet one-way delay: 164.026 ms

Loss rate: 1.51%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 08:43:49

End at: 2018-01-16 08:44:19

Below is generated by plot.py at 2018-01-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.34 Mbit/s

95th percentile per-packet one-way delay: 167.092 ms

Loss rate: 2.16%

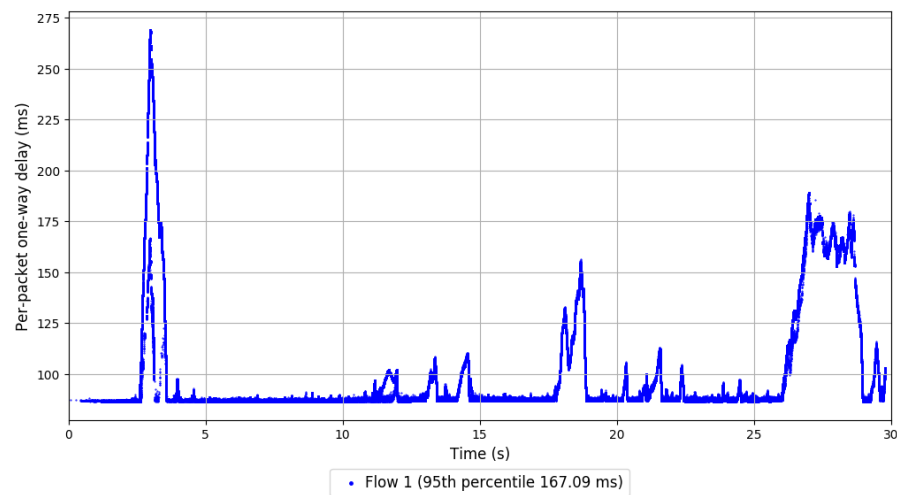
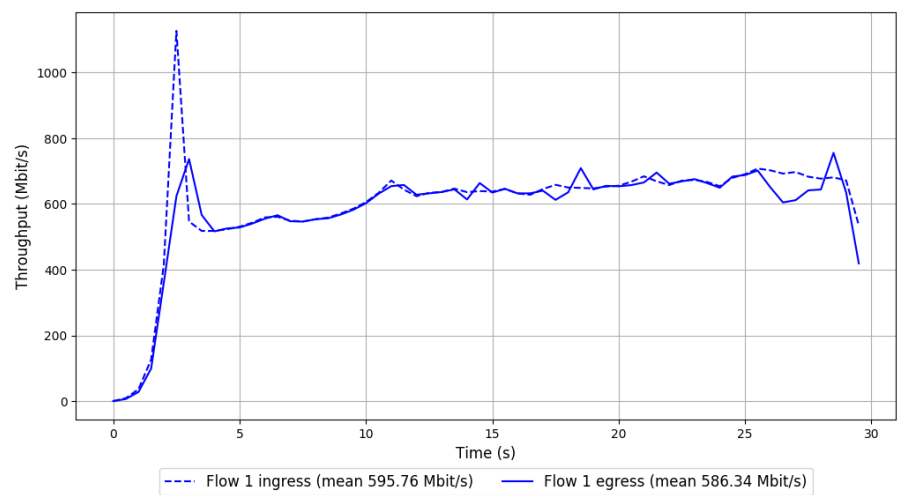
-- Flow 1:

Average throughput: 586.34 Mbit/s

95th percentile per-packet one-way delay: 167.092 ms

Loss rate: 2.16%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 08:58:21

End at: 2018-01-16 08:58:51

Below is generated by plot.py at 2018-01-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 114.785 ms

Loss rate: 4.70%

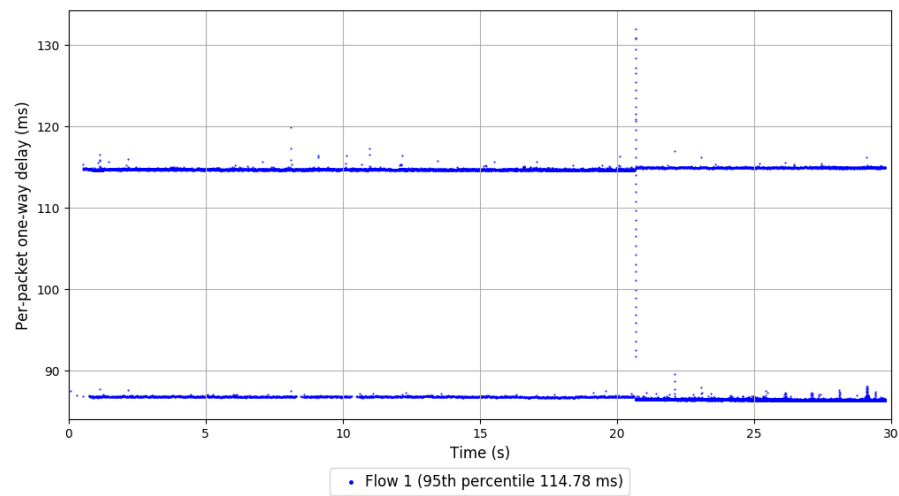
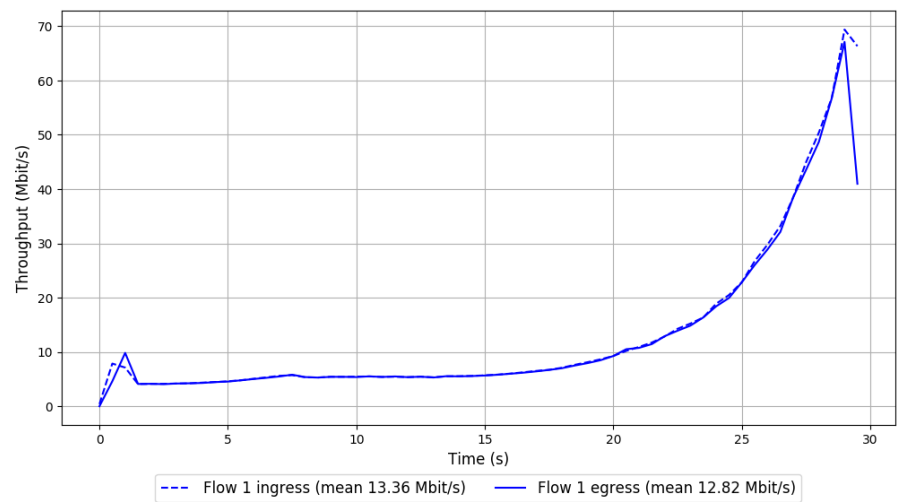
-- Flow 1:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 114.785 ms

Loss rate: 4.70%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 09:13:07

End at: 2018-01-16 09:13:37

Below is generated by plot.py at 2018-01-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.22 Mbit/s

95th percentile per-packet one-way delay: 152.253 ms

Loss rate: 1.16%

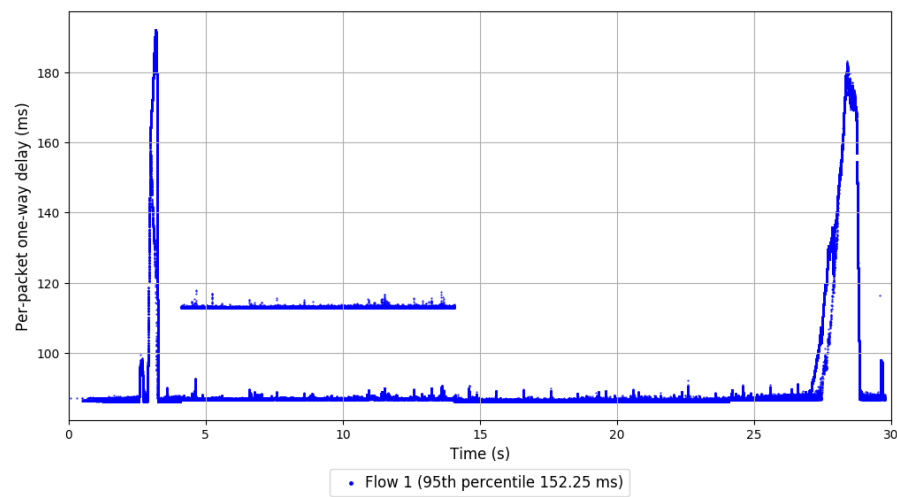
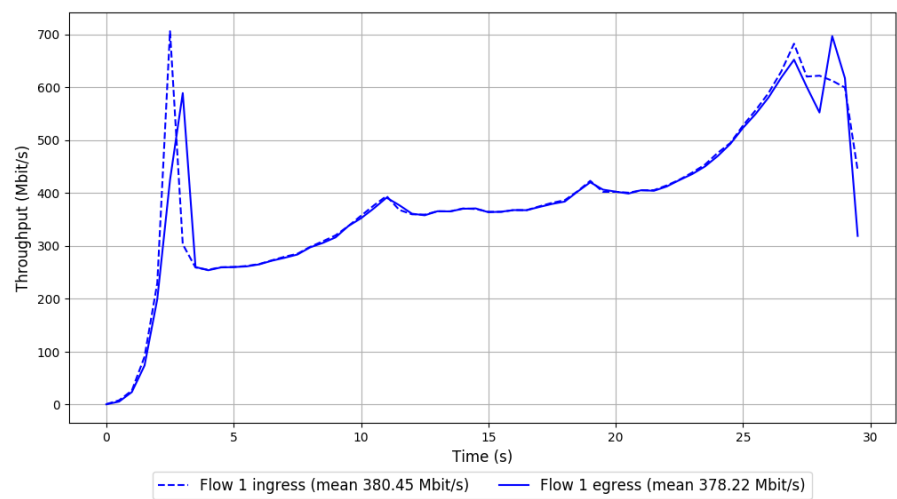
-- Flow 1:

Average throughput: 378.22 Mbit/s

95th percentile per-packet one-way delay: 152.253 ms

Loss rate: 1.16%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 09:27:49

End at: 2018-01-16 09:28:19

Below is generated by plot.py at 2018-01-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.59 Mbit/s

95th percentile per-packet one-way delay: 104.688 ms

Loss rate: 1.05%

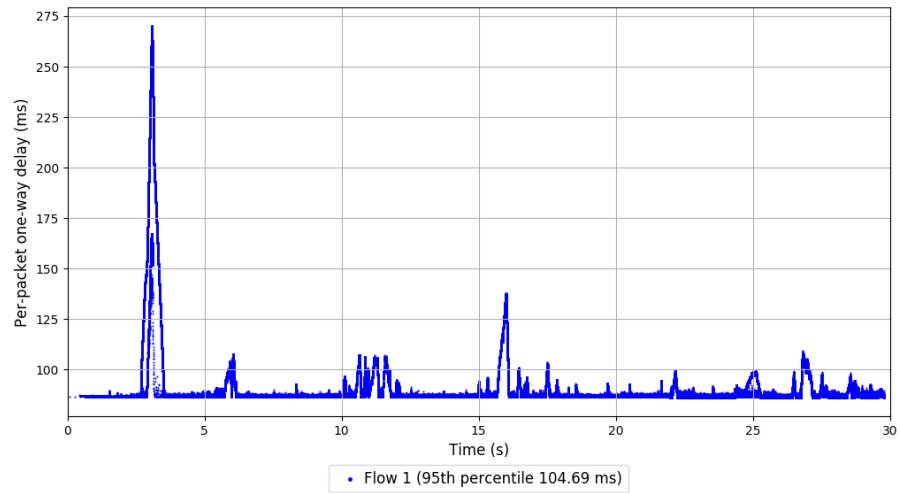
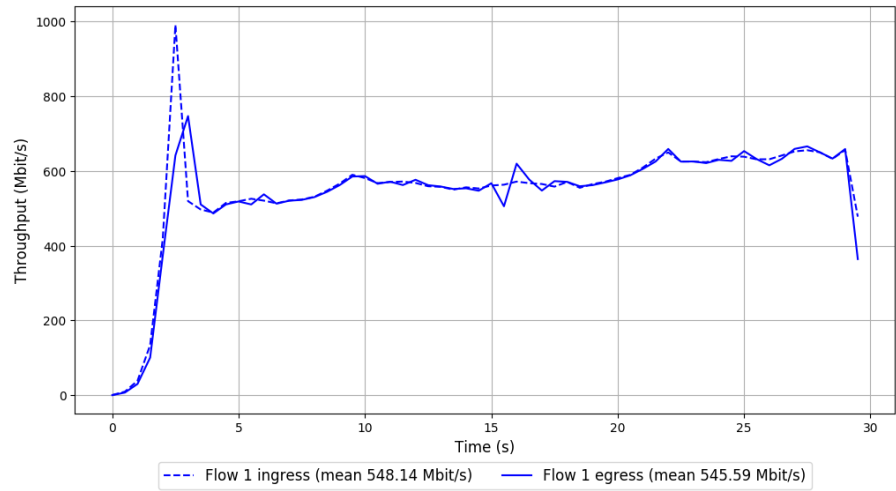
-- Flow 1:

Average throughput: 545.59 Mbit/s

95th percentile per-packet one-way delay: 104.688 ms

Loss rate: 1.05%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 09:42:12

End at: 2018-01-16 09:42:42

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.07 Mbit/s

95th percentile per-packet one-way delay: 141.871 ms

Loss rate: 1.50%

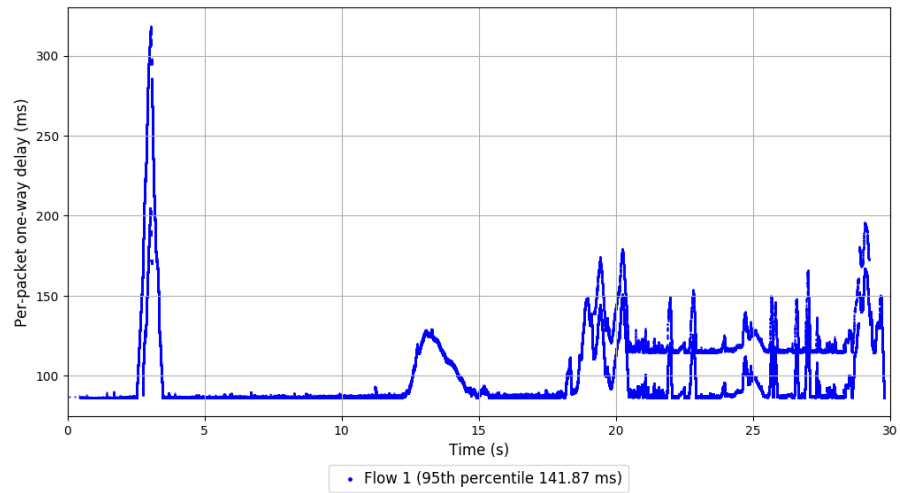
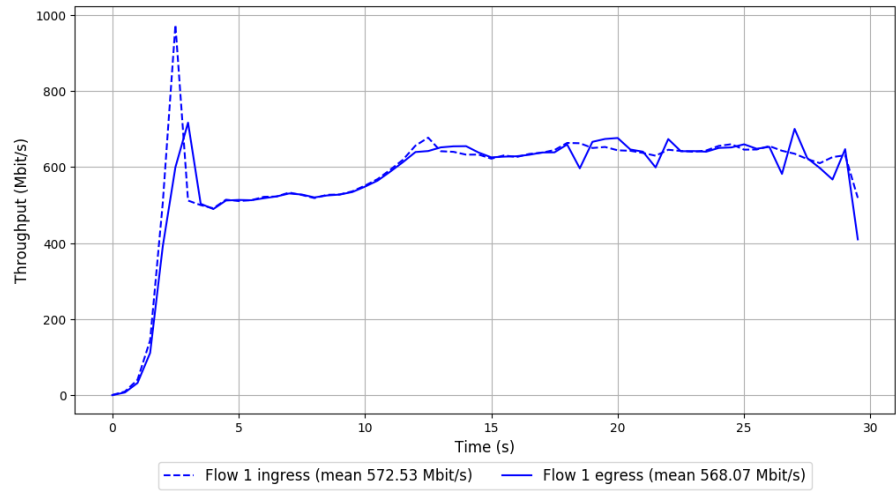
-- Flow 1:

Average throughput: 568.07 Mbit/s

95th percentile per-packet one-way delay: 141.871 ms

Loss rate: 1.50%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 07:37:41

End at: 2018-01-16 07:38:11

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 87.865 ms

Loss rate: 0.75%

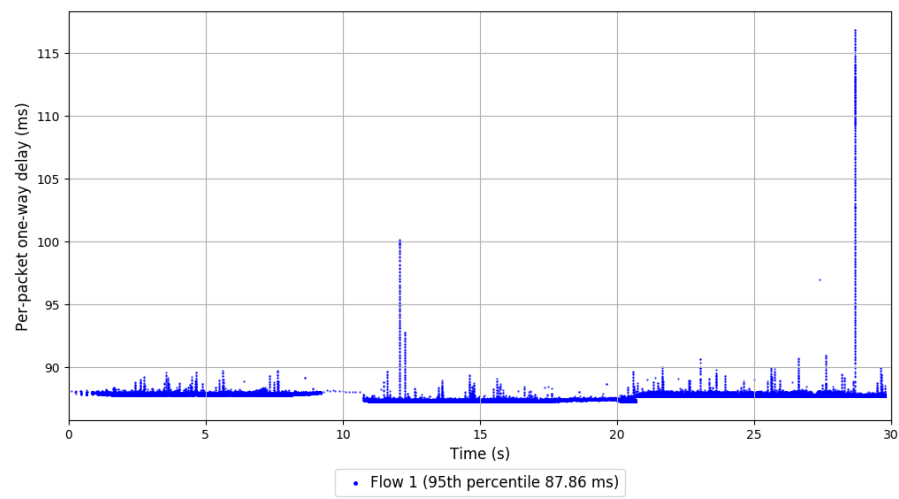
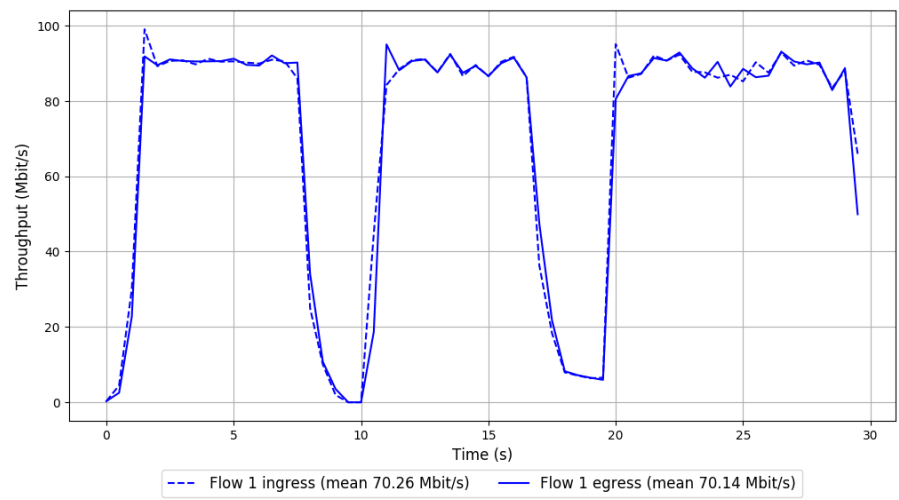
-- Flow 1:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 87.865 ms

Loss rate: 0.75%

Run 1: Report of QUIC Cubic — Data Link

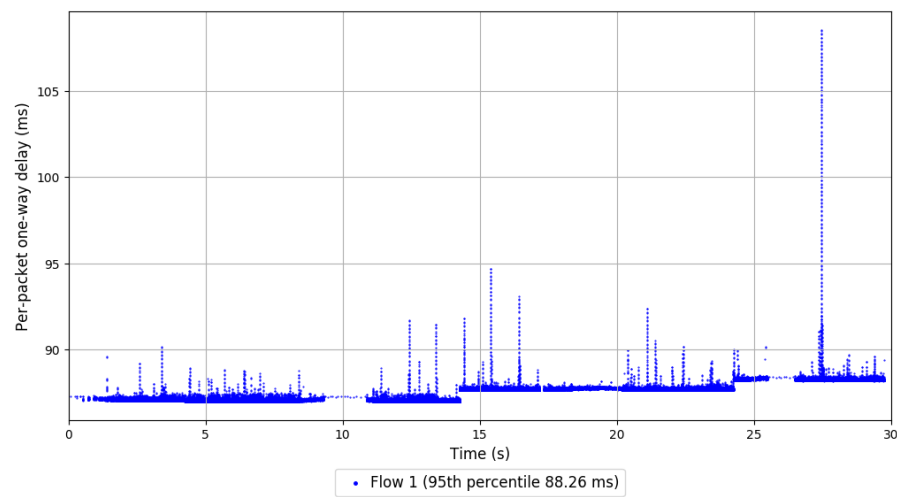
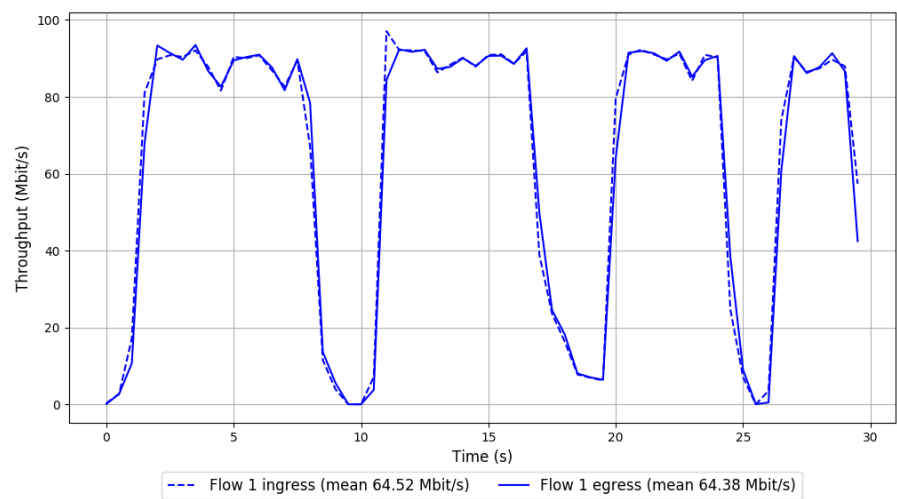


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 07:53:07
End at: 2018-01-16 07:53:37

# Below is generated by plot.py at 2018-01-16 12:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 88.256 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 88.256 ms
Loss rate: 0.80%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 08:08:08

End at: 2018-01-16 08:08:38

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 88.033 ms

Loss rate: 1.02%

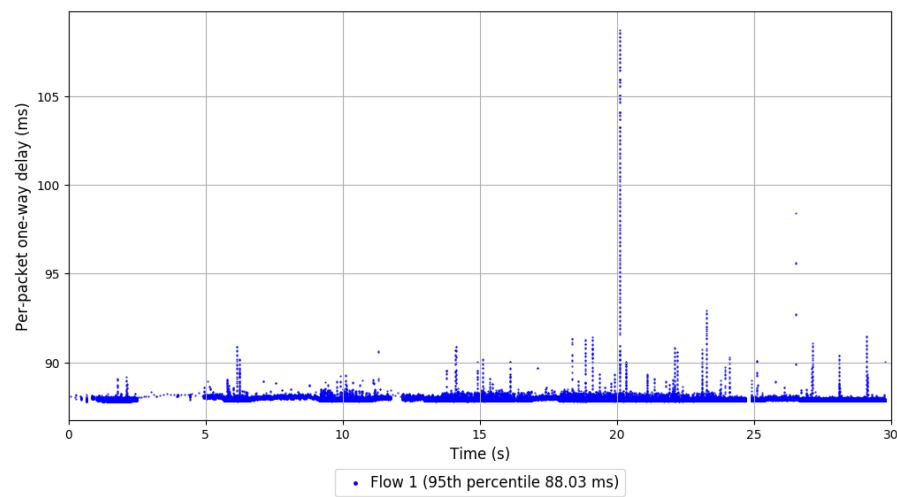
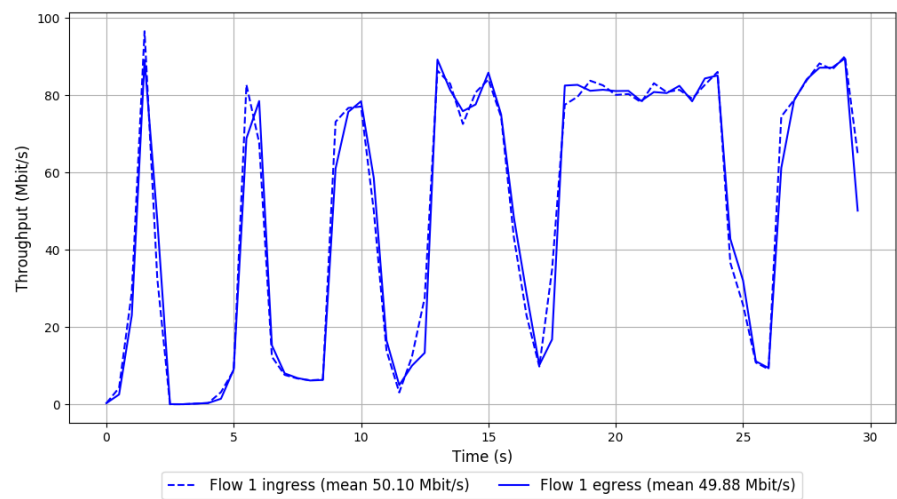
-- Flow 1:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 88.033 ms

Loss rate: 1.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 08:22:57

End at: 2018-01-16 08:23:27

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 115.505 ms

Loss rate: 0.78%

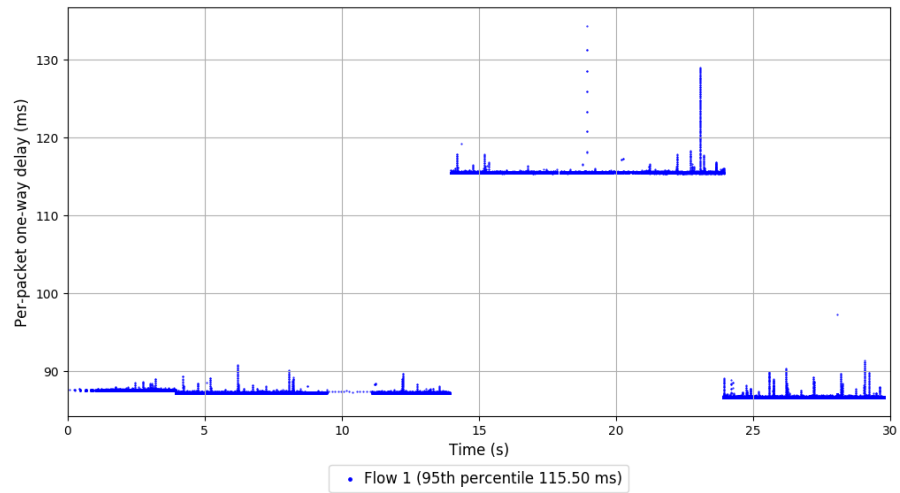
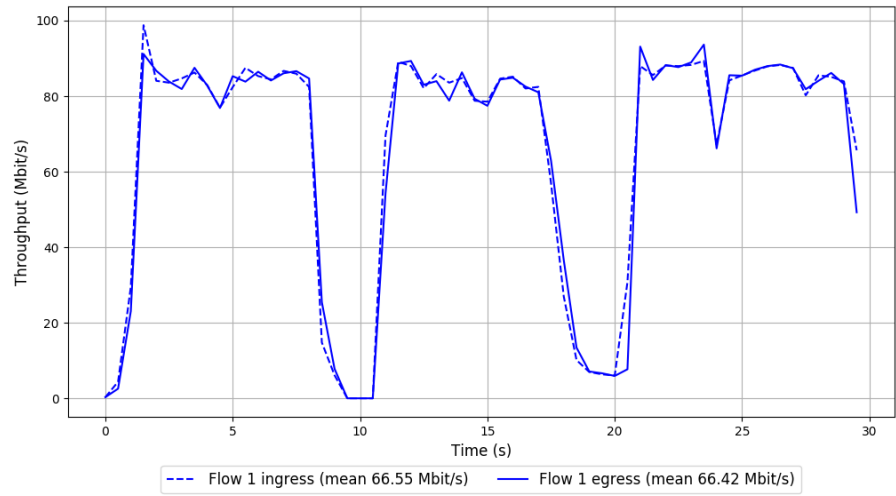
-- Flow 1:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 115.505 ms

Loss rate: 0.78%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 08:37:47

End at: 2018-01-16 08:38:17

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 115.330 ms

Loss rate: 0.50%

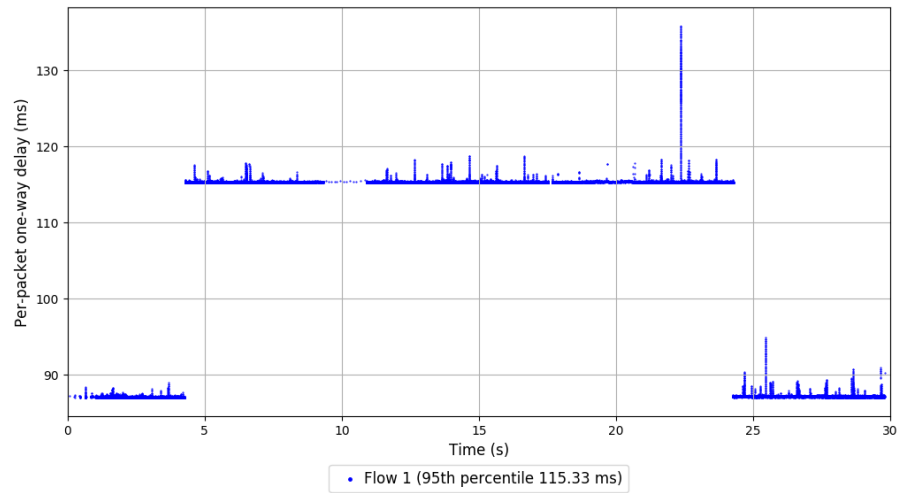
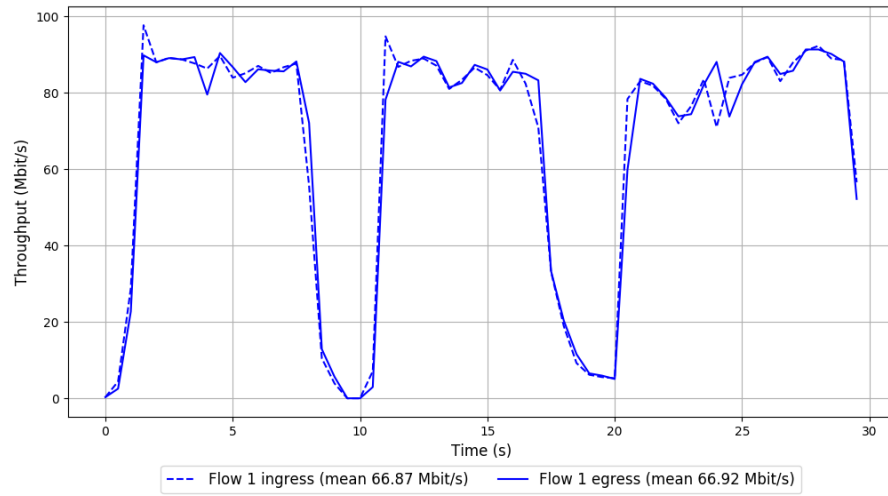
-- Flow 1:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 115.330 ms

Loss rate: 0.50%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 08:52:30

End at: 2018-01-16 08:53:00

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.83%

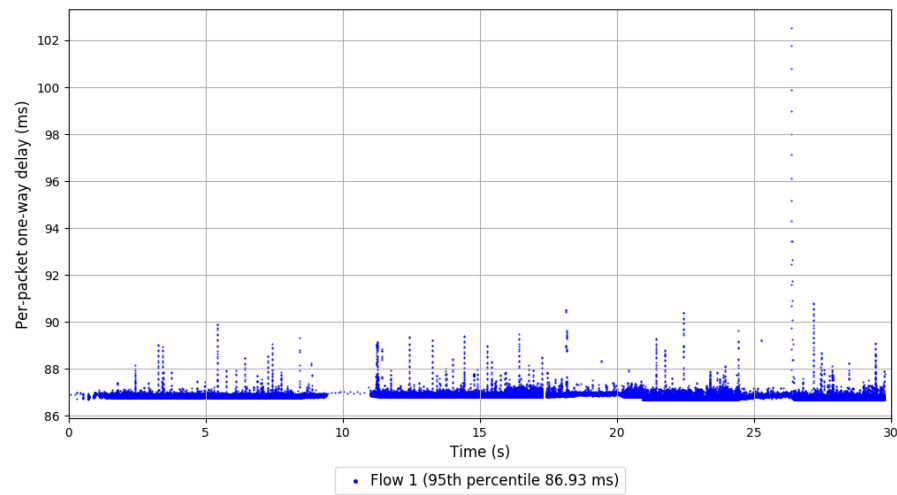
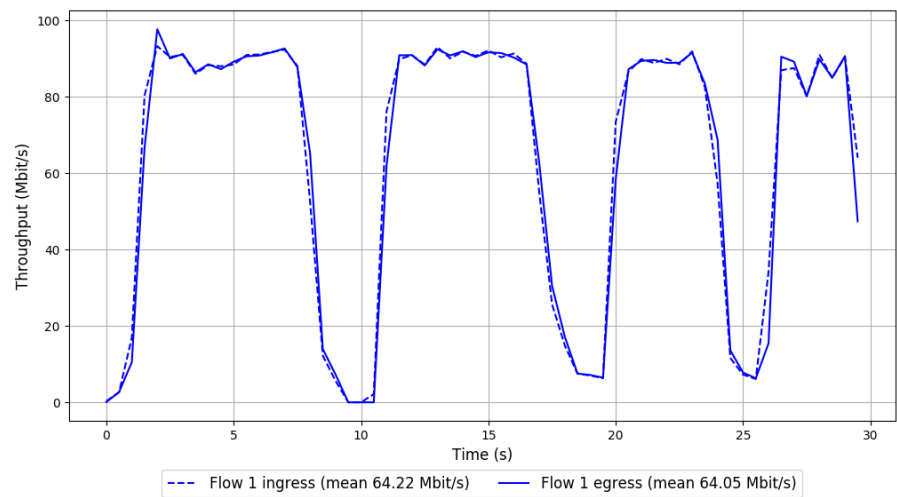
-- Flow 1:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.83%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 09:06:40

End at: 2018-01-16 09:07:10

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 1.15%

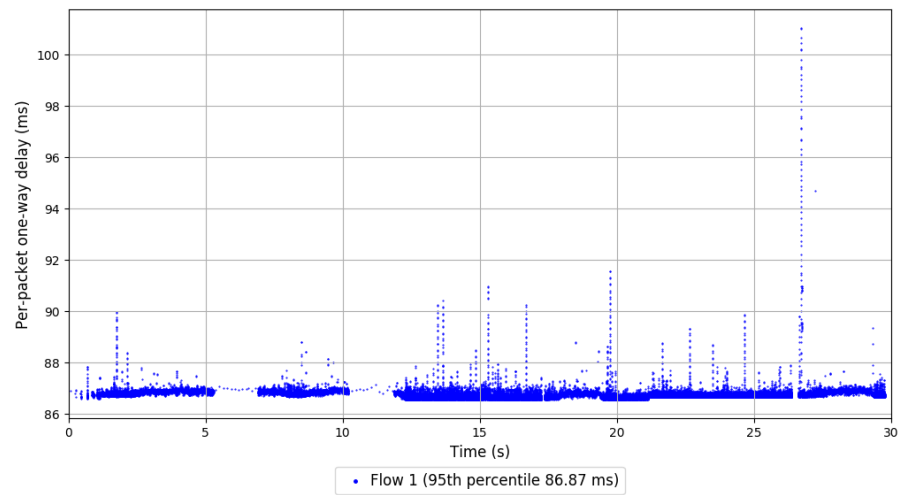
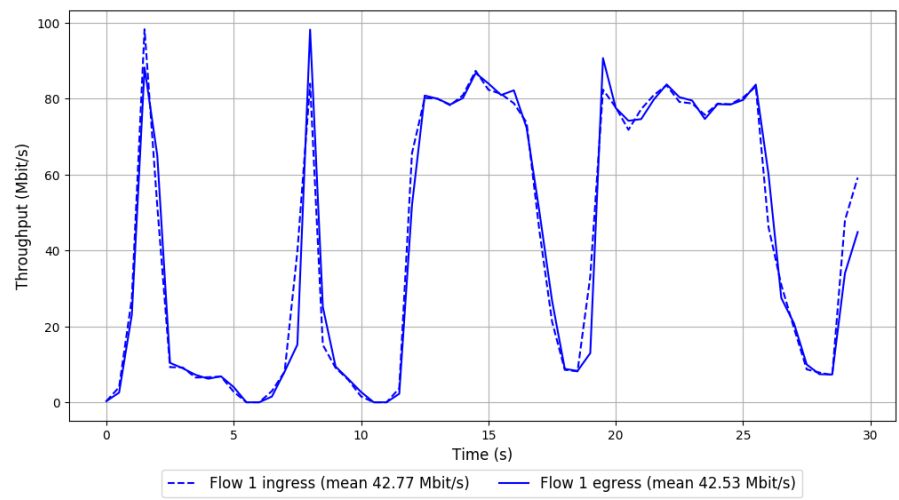
-- Flow 1:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 1.15%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 09:21:38

End at: 2018-01-16 09:22:08

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 86.195 ms

Loss rate: 0.66%

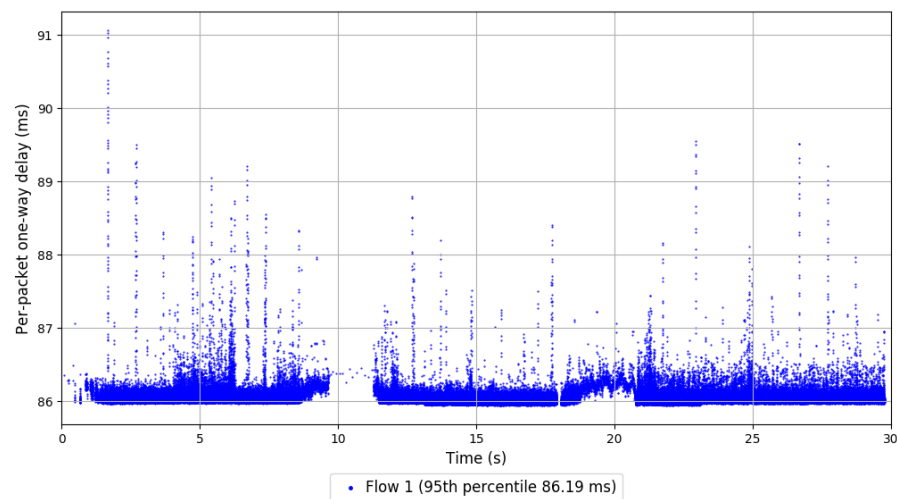
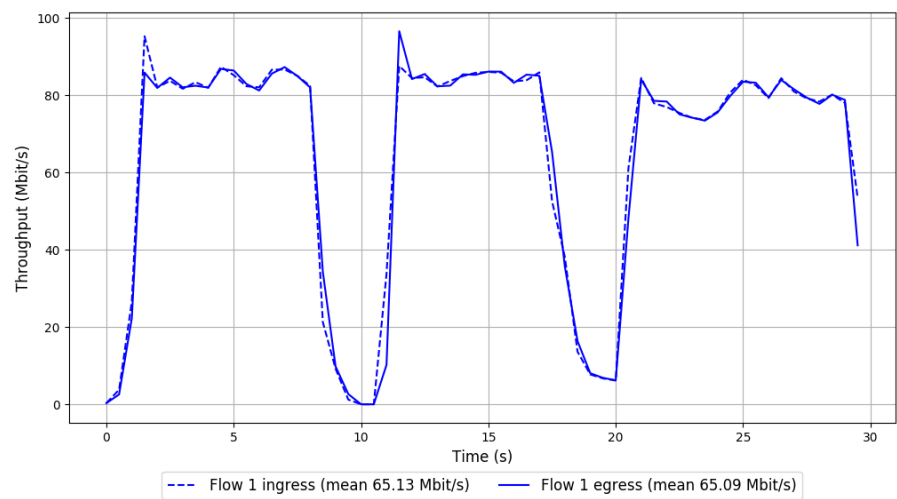
-- Flow 1:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 86.195 ms

Loss rate: 0.66%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 09:36:21

End at: 2018-01-16 09:36:51

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 112.471 ms

Loss rate: 0.95%

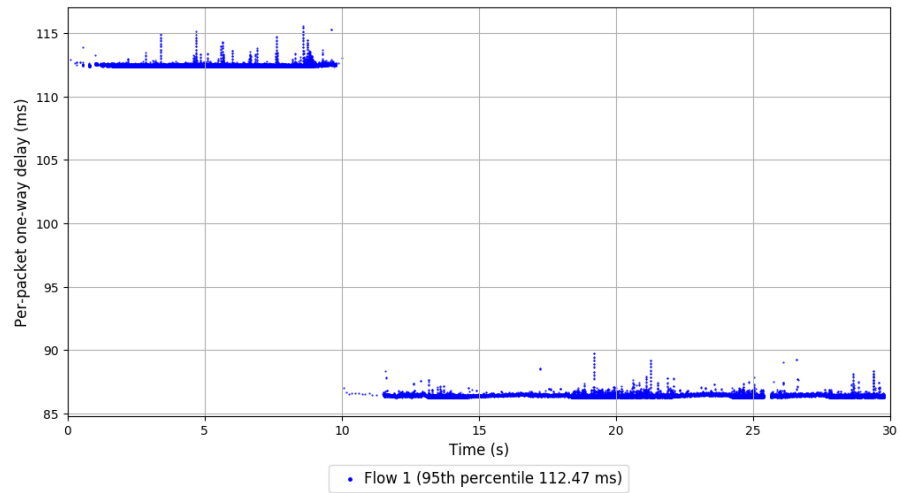
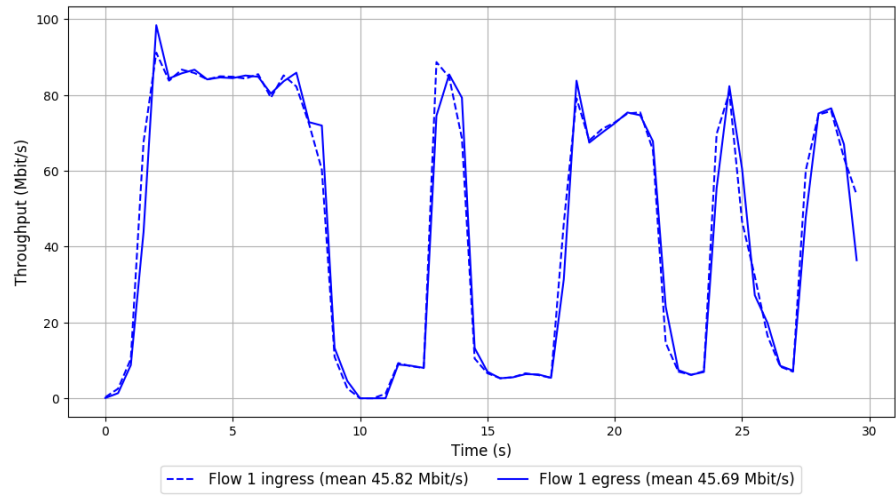
-- Flow 1:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 112.471 ms

Loss rate: 0.95%

Run 9: Report of QUIC Cubic — Data Link

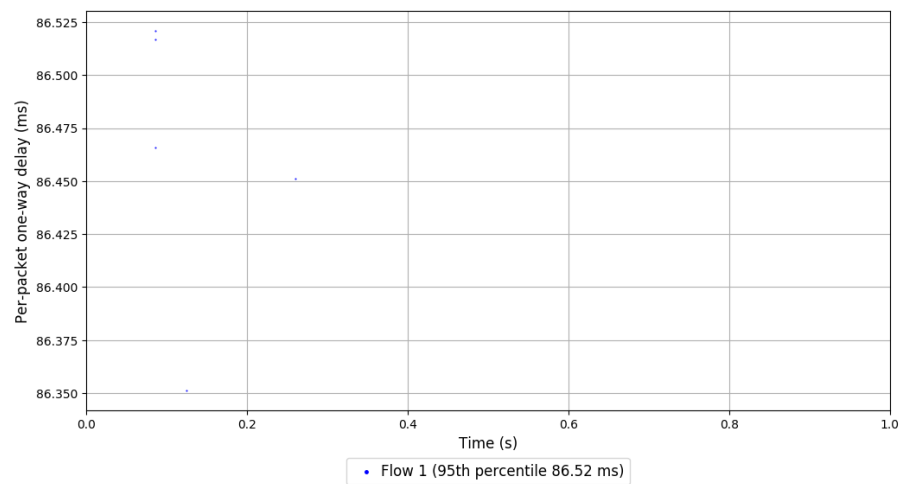
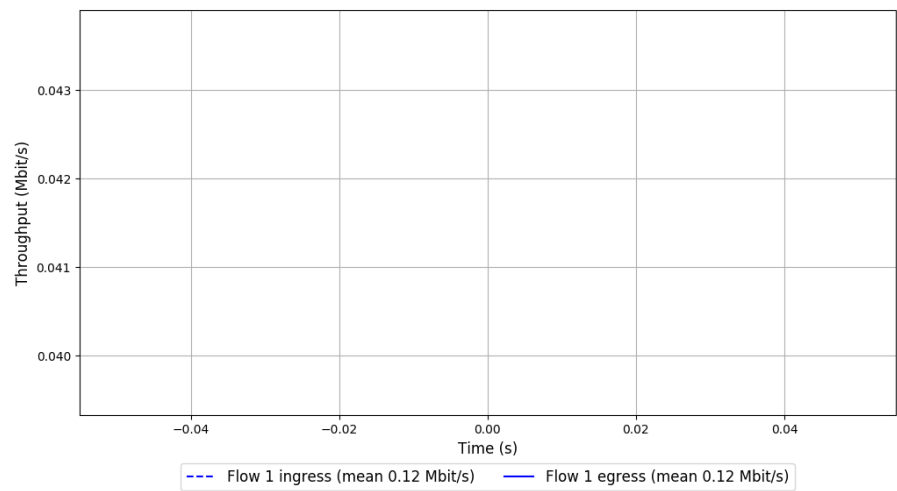


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 09:50:59

End at: 2018-01-16 09:51:29

Run 10: Report of QUIC Cubic — Data Link

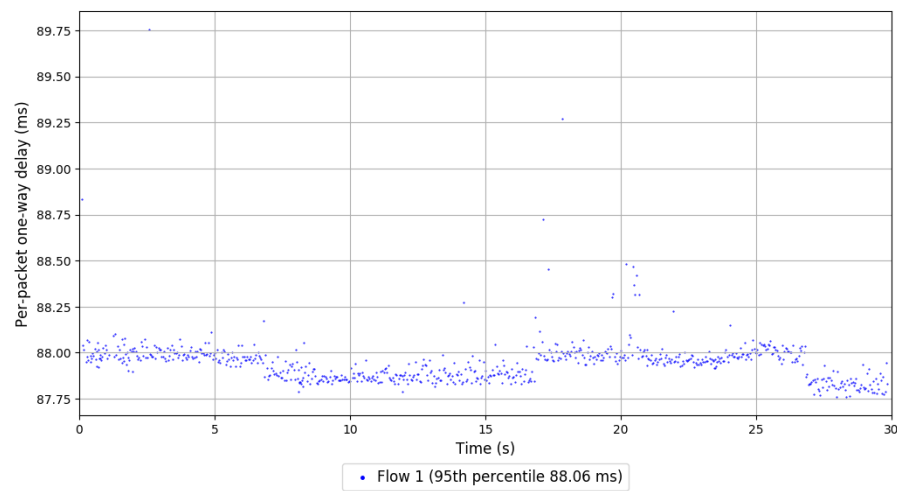
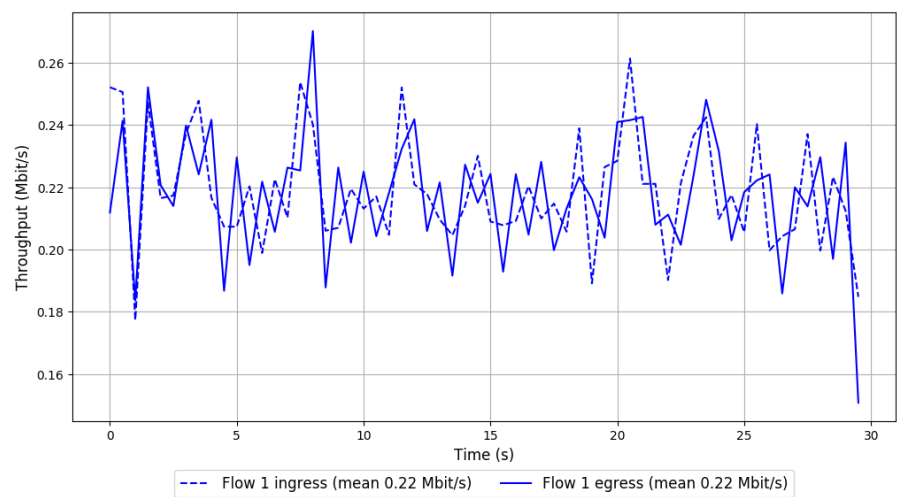


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 07:26:05
End at: 2018-01-16 07:26:35

# Below is generated by plot.py at 2018-01-16 12:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.055 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.055 ms
Loss rate: 0.51%
```

Run 1: Report of SReAM — Data Link

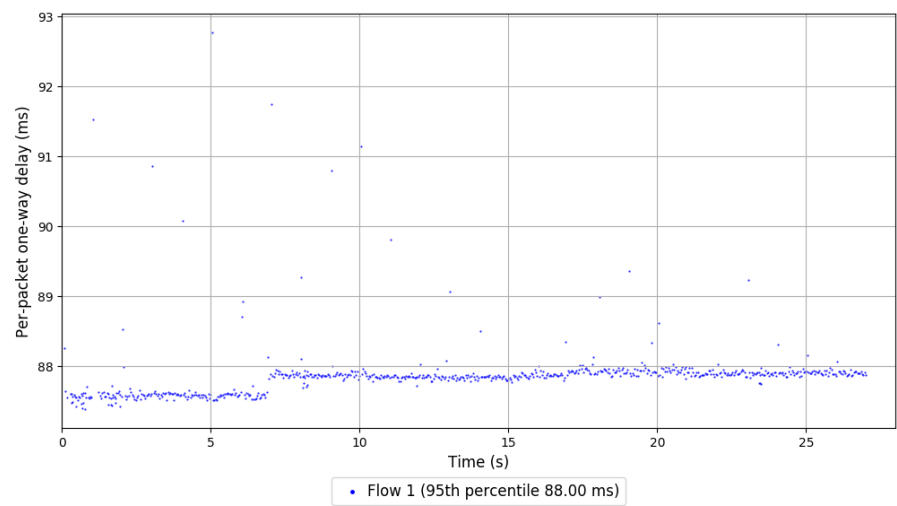
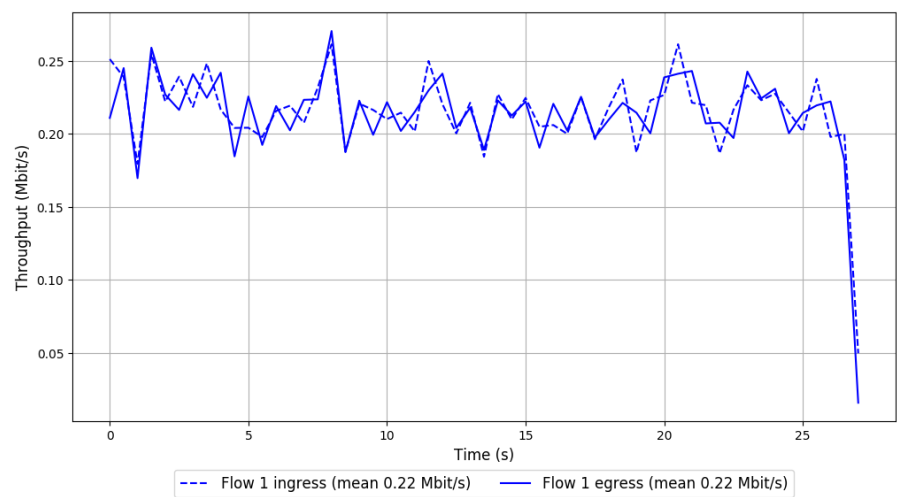


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 07:40:52
End at: 2018-01-16 07:41:22

# Below is generated by plot.py at 2018-01-16 12:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.002 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.002 ms
Loss rate: 0.69%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 07:56:29

End at: 2018-01-16 07:56:59

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 0.50%

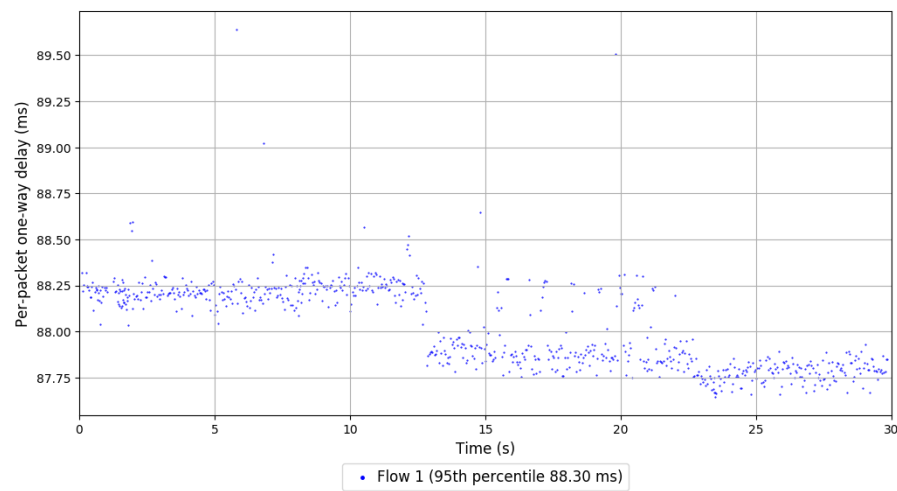
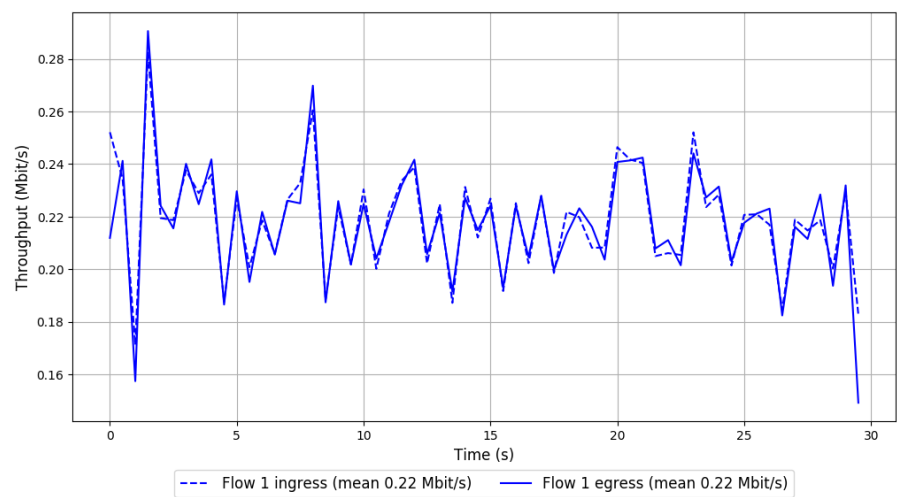
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 0.50%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 08:11:27

End at: 2018-01-16 08:11:57

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.318 ms

Loss rate: 0.51%

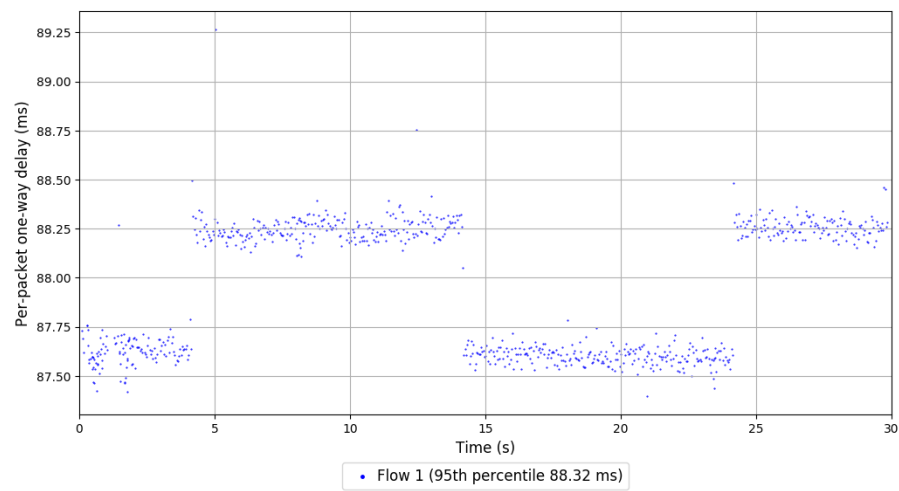
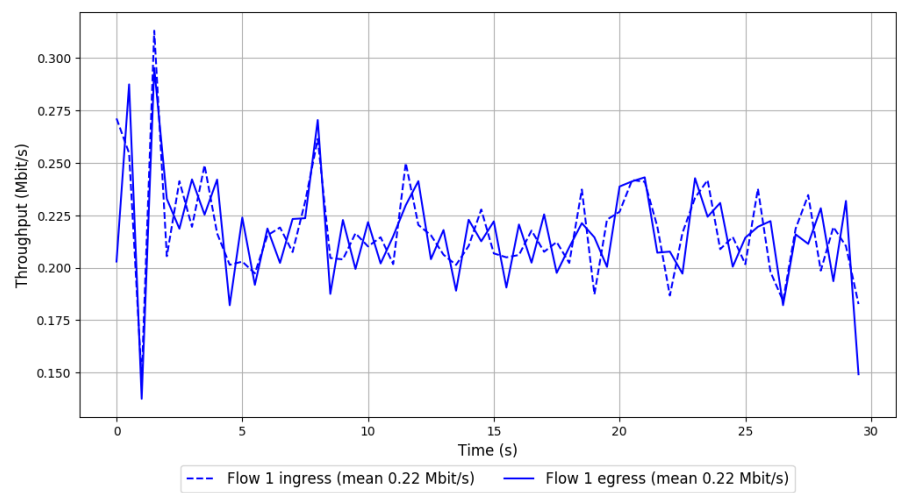
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.318 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link

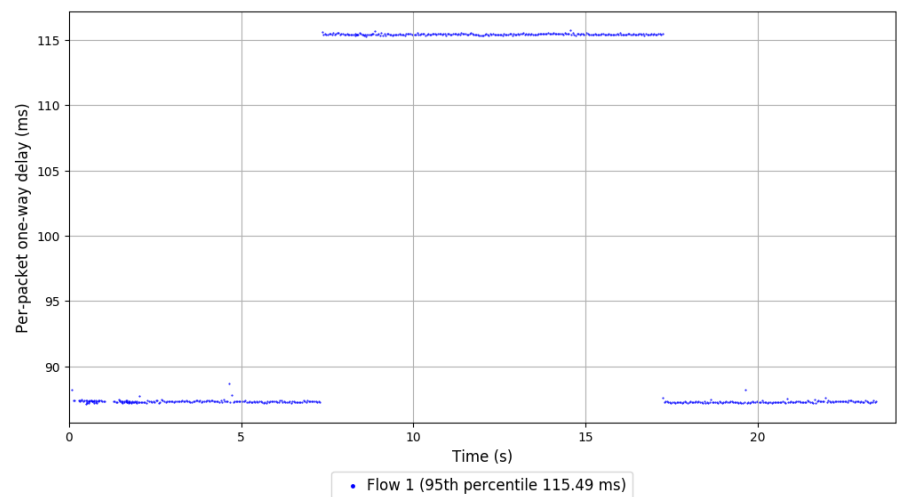
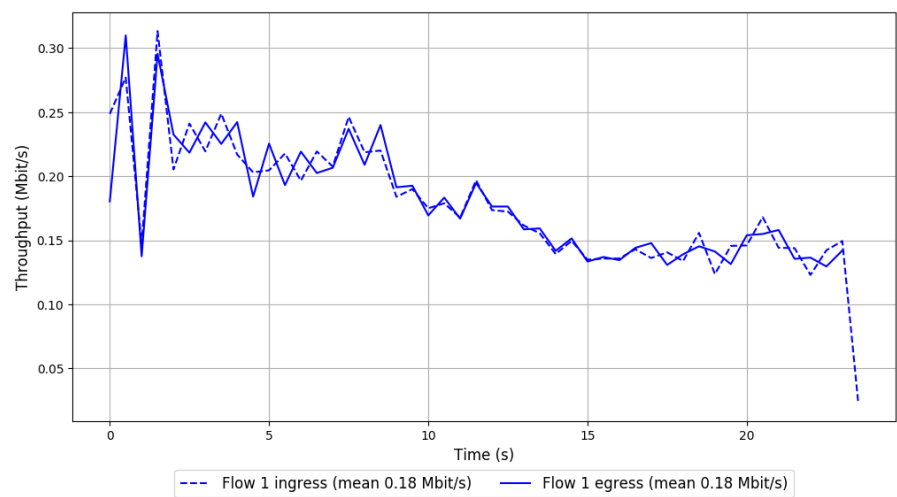


Run 5: Statistics of SReAM

Start at: 2018-01-16 08:26:08

End at: 2018-01-16 08:26:38

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 08:40:56

End at: 2018-01-16 08:41:26

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.419 ms

Loss rate: 0.64%

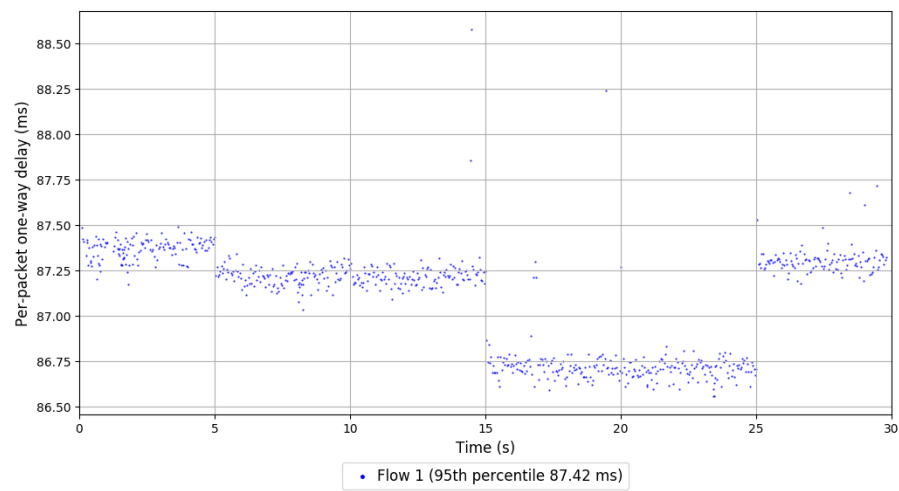
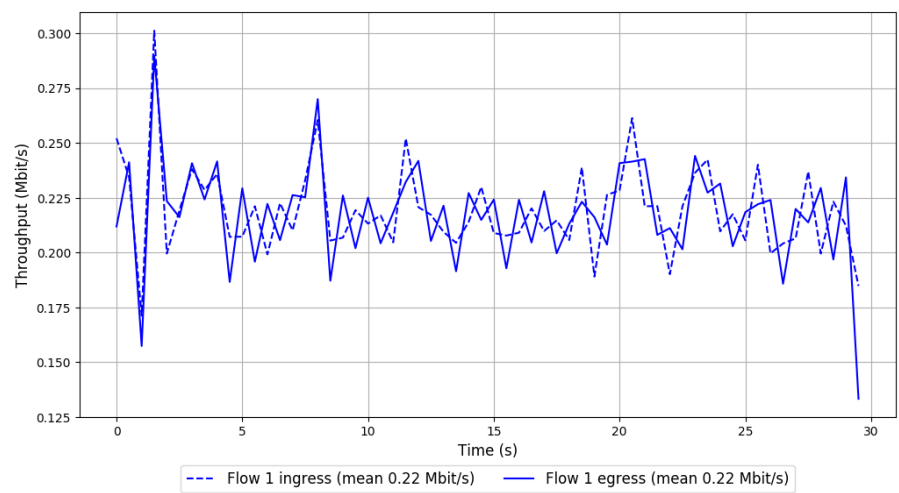
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.419 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-16 08:55:29

End at: 2018-01-16 08:55:59

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.169 ms

Loss rate: 0.51%

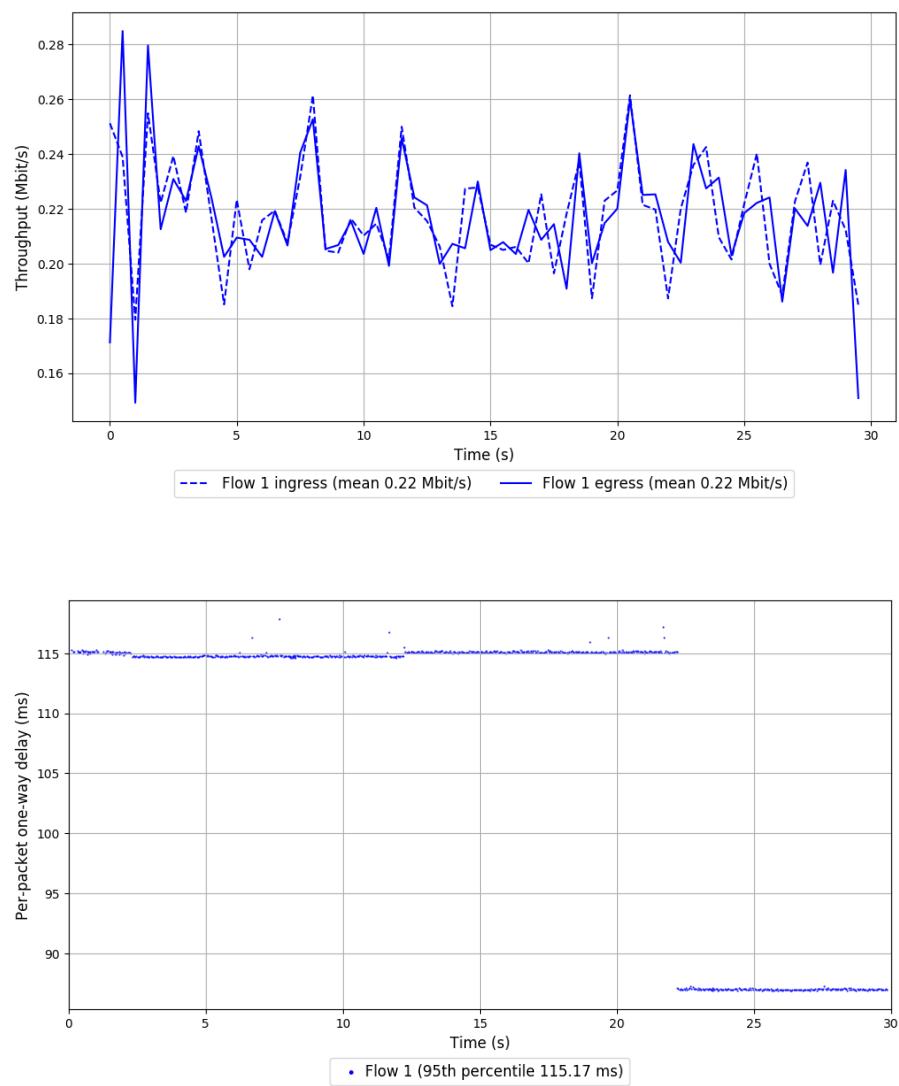
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.169 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 09:10:07

End at: 2018-01-16 09:10:38

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.51%

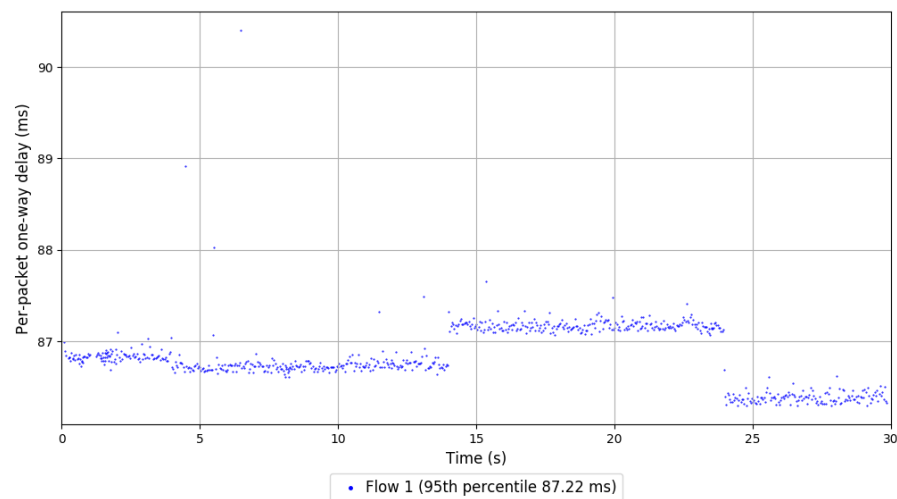
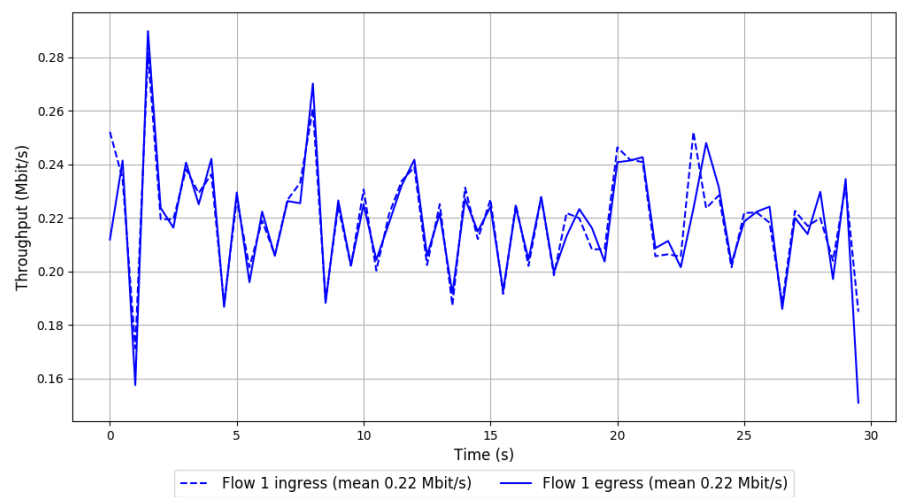
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 09:24:49

End at: 2018-01-16 09:25:19

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 114.782 ms

Loss rate: 0.62%

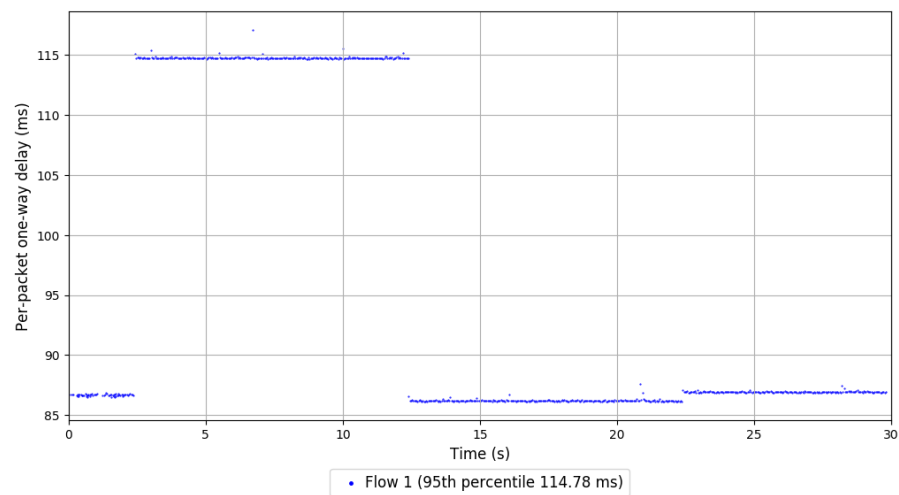
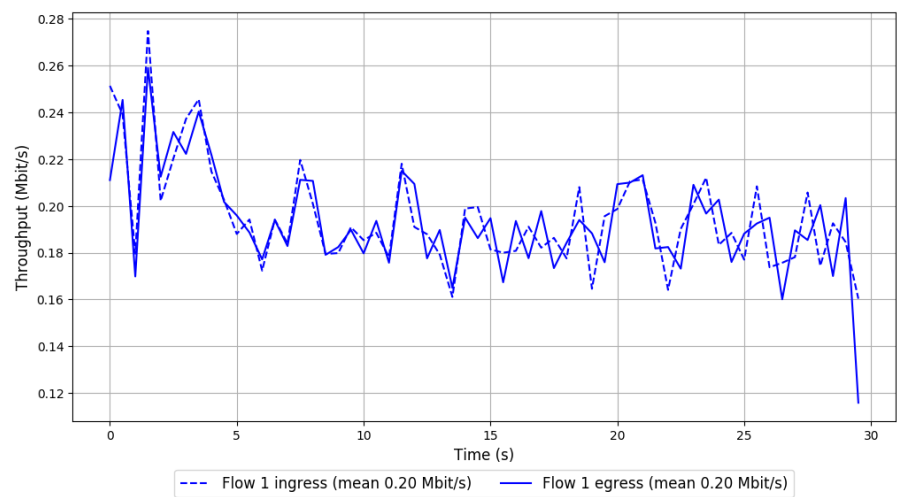
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 114.782 ms

Loss rate: 0.62%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-16 09:39:16

End at: 2018-01-16 09:39:46

Below is generated by plot.py at 2018-01-16 12:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 114.872 ms

Loss rate: 0.40%

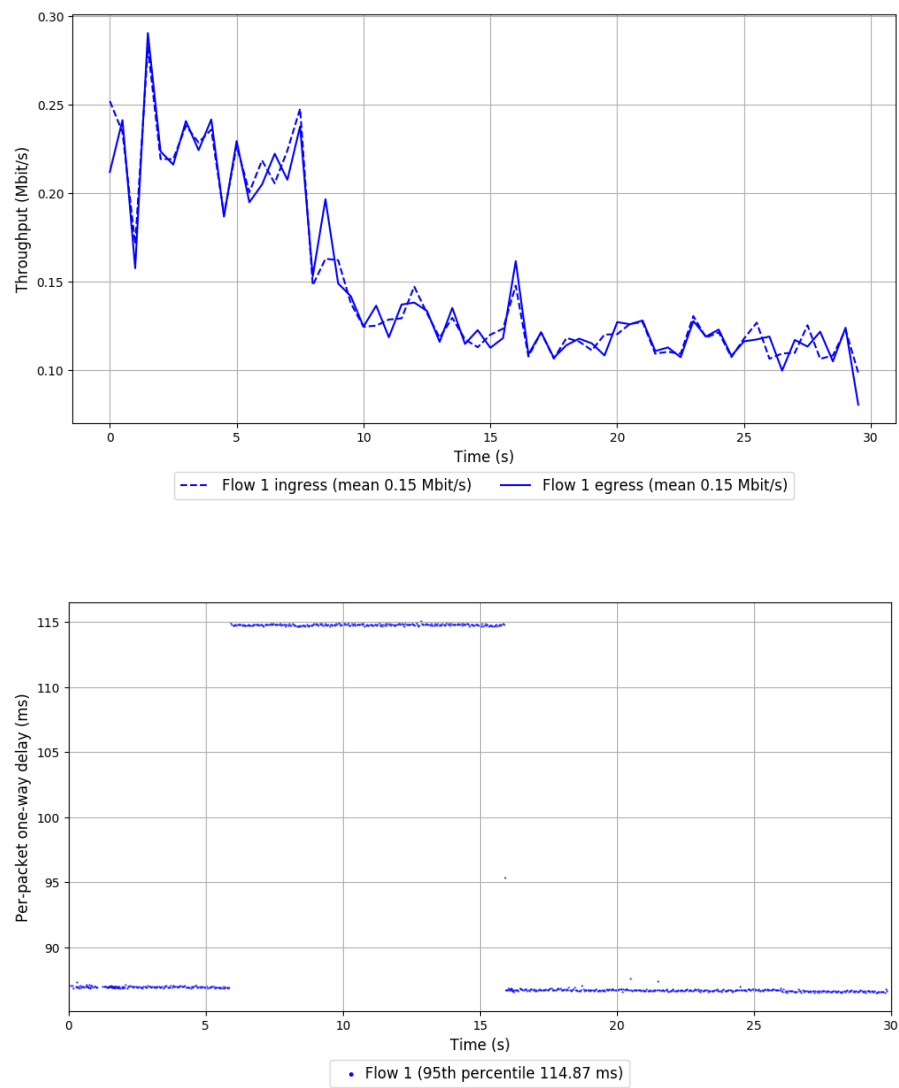
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 114.872 ms

Loss rate: 0.40%

Run 10: Report of SReAM — Data Link

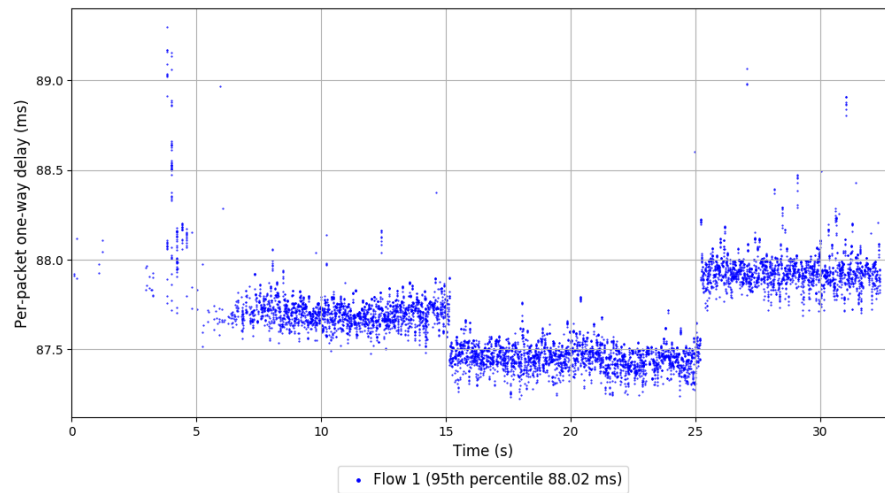
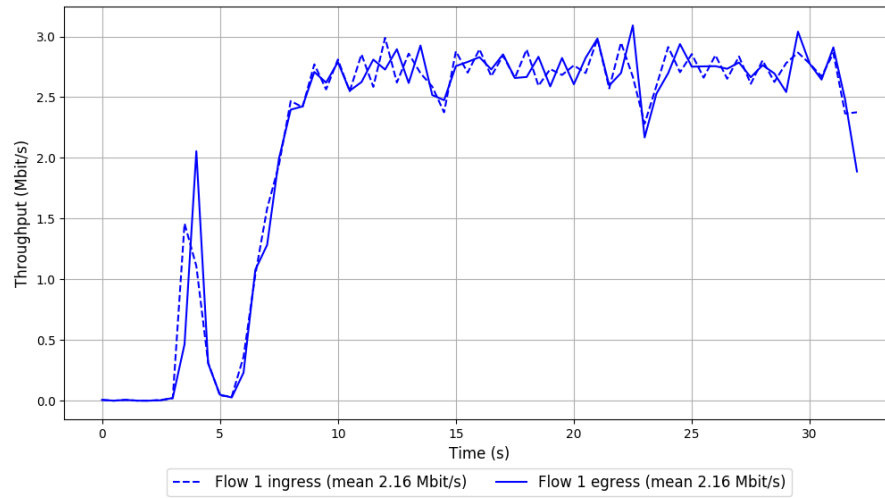


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 07:32:49
End at: 2018-01-16 07:33:19

# Below is generated by plot.py at 2018-01-16 12:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 88.019 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 88.019 ms
Loss rate: 0.63%
```


Run 1: Report of WebRTC media — Data Link

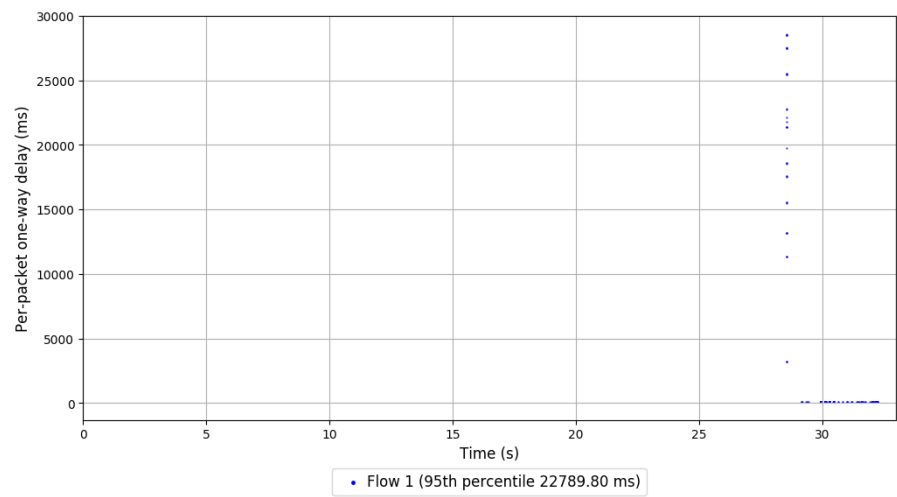
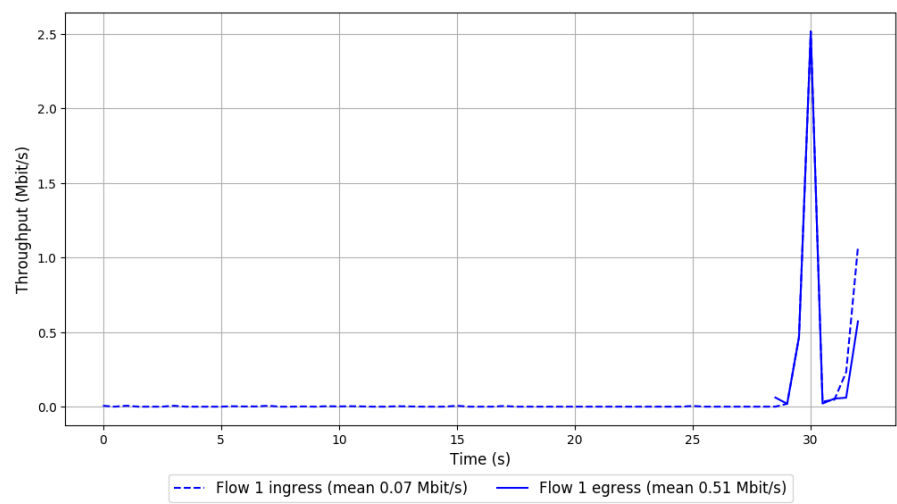


Run 2: Statistics of WebRTC media

Start at: 2018-01-16 07:48:09

End at: 2018-01-16 07:48:39

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 08:03:22

End at: 2018-01-16 08:03:52

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 88.120 ms

Loss rate: 0.73%

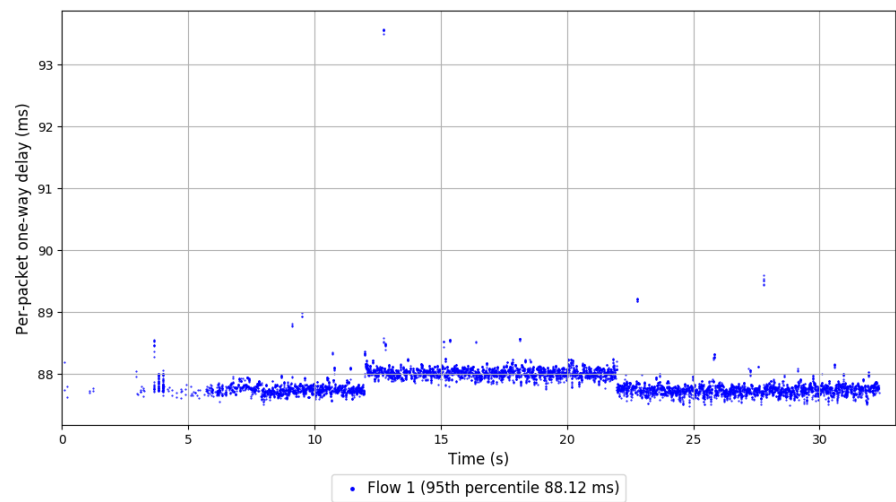
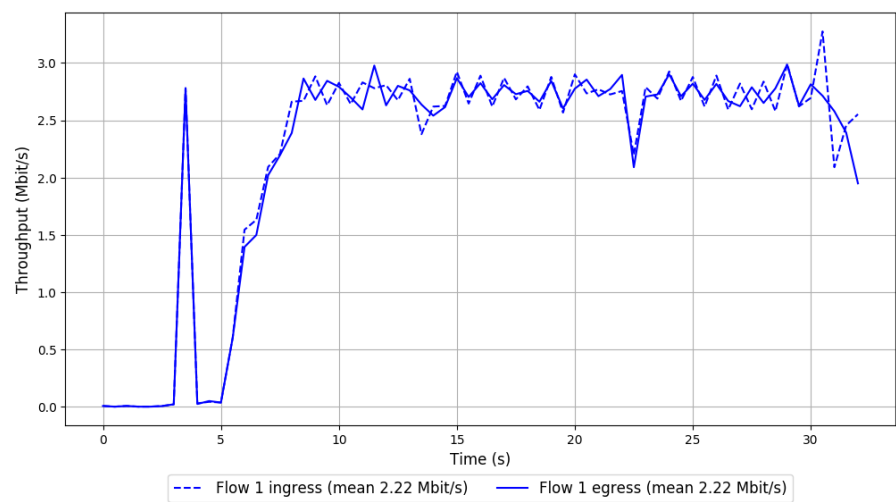
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 88.120 ms

Loss rate: 0.73%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 08:18:09

End at: 2018-01-16 08:18:39

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 87.635 ms

Loss rate: 0.63%

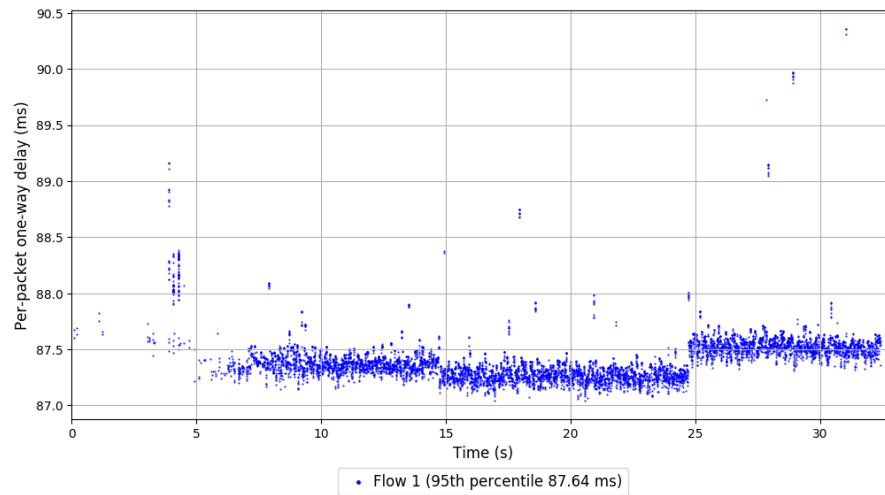
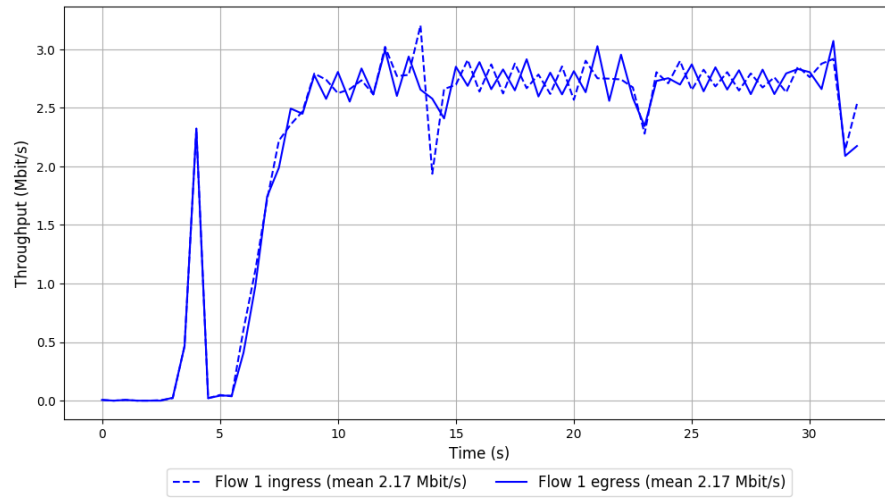
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 87.635 ms

Loss rate: 0.63%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 08:33:05

End at: 2018-01-16 08:33:35

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 115.393 ms

Loss rate: 0.64%

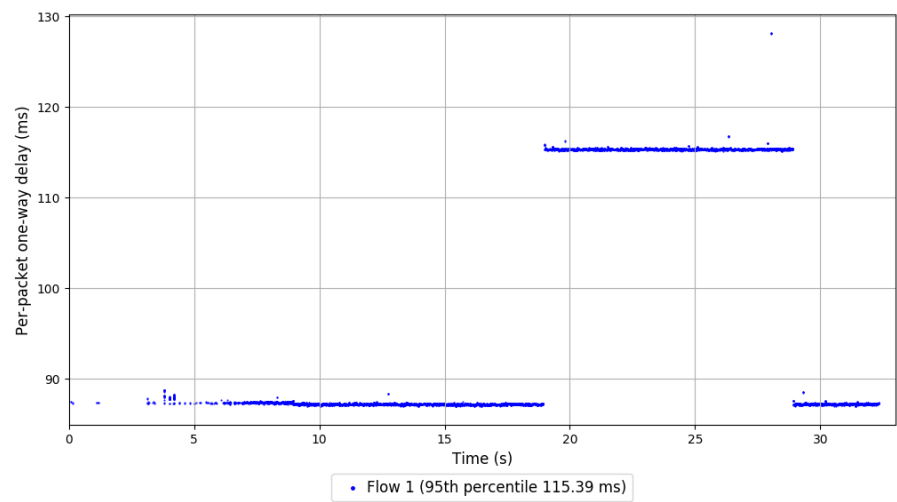
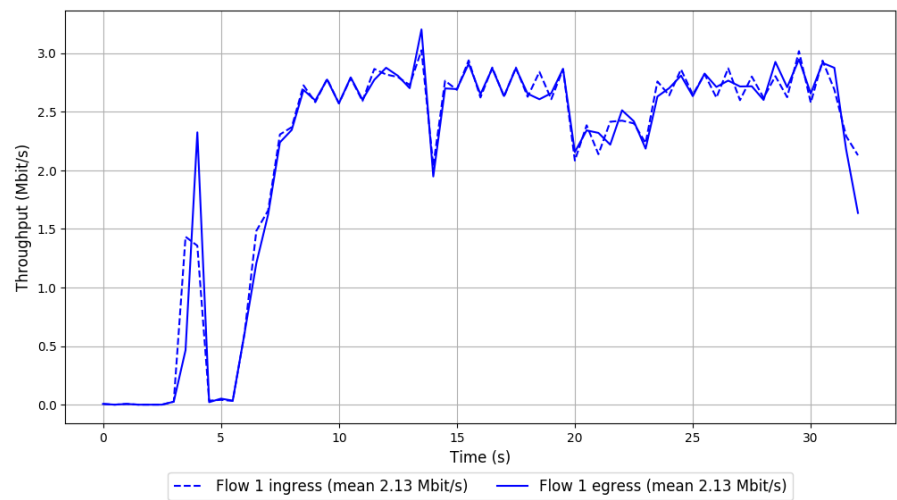
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 115.393 ms

Loss rate: 0.64%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 08:47:56

End at: 2018-01-16 08:48:26

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.75%

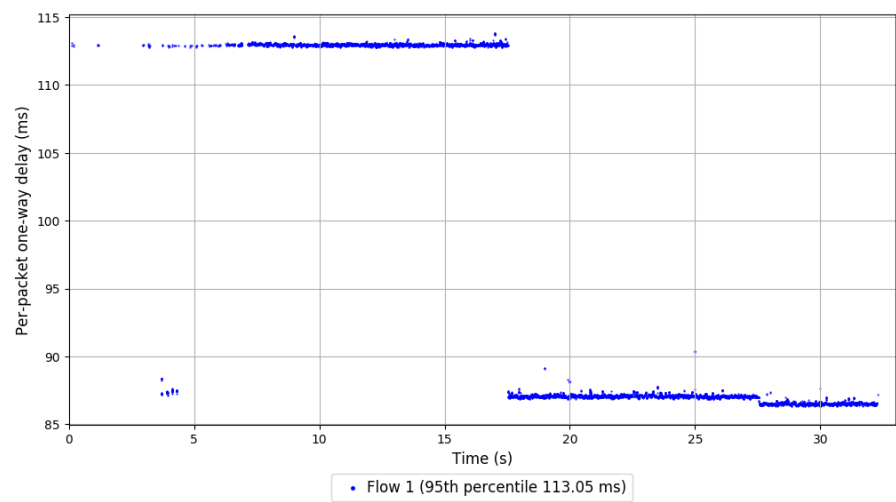
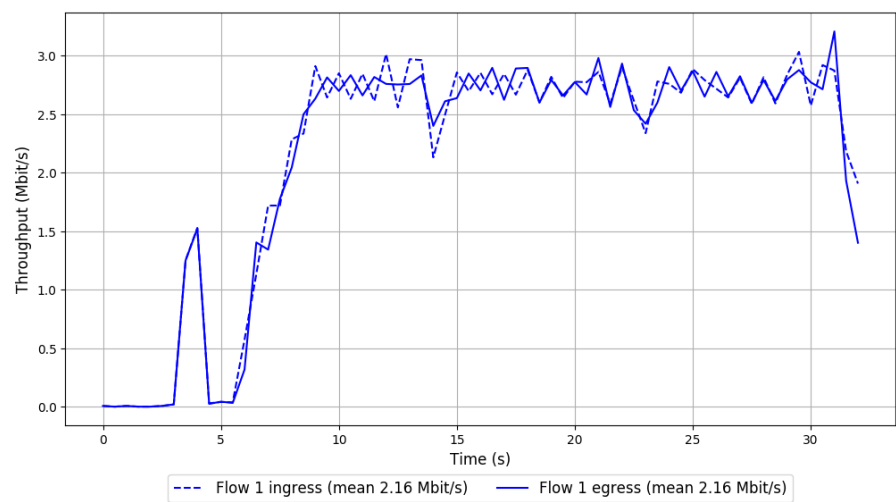
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.75%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 09:01:57

End at: 2018-01-16 09:02:27

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.168 ms

Loss rate: 0.66%

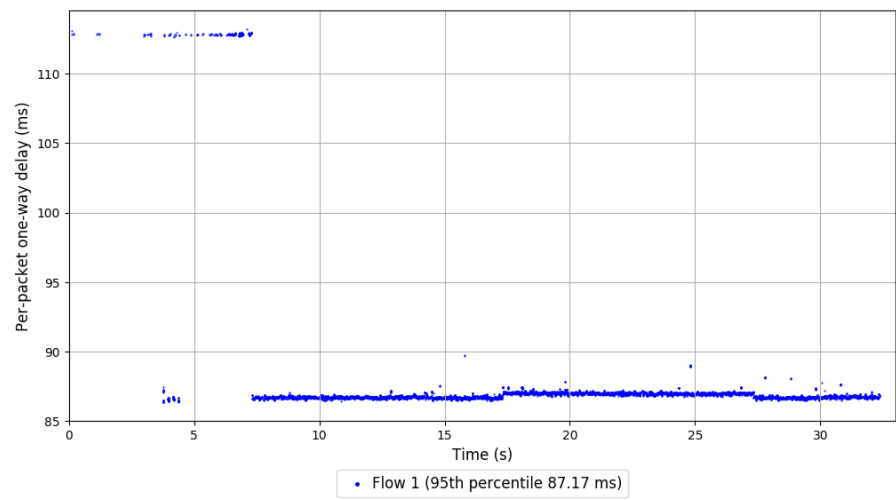
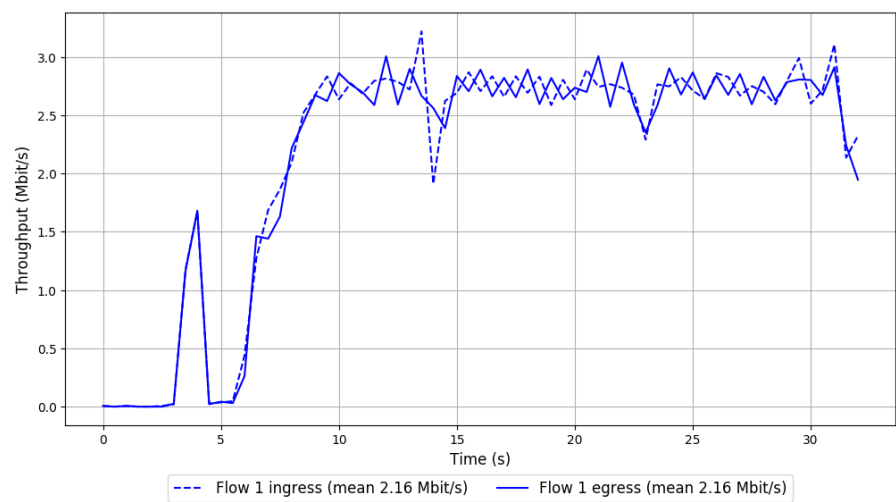
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.168 ms

Loss rate: 0.66%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 09:17:16

End at: 2018-01-16 09:17:46

Run 8: Report of WebRTC media — Data Link

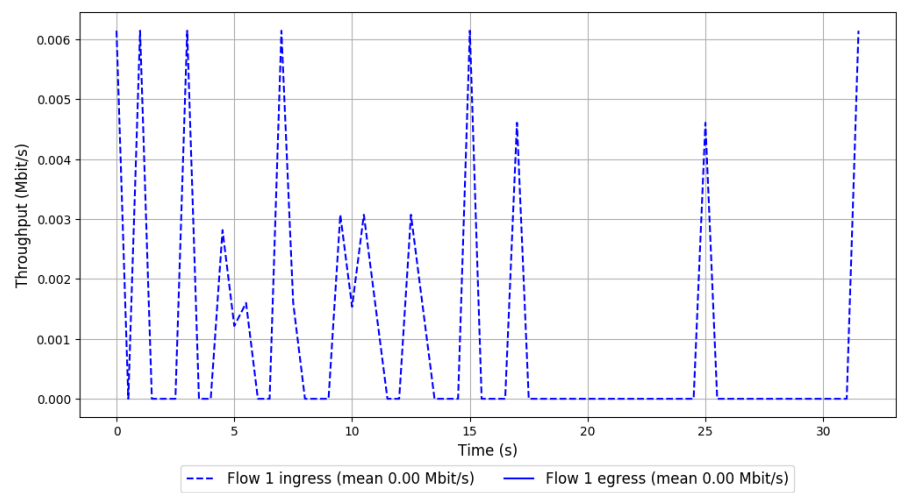


Figure is missing

Run 9: Statistics of WebRTC media

Start at: 2018-01-16 09:31:50

End at: 2018-01-16 09:32:20

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.60%

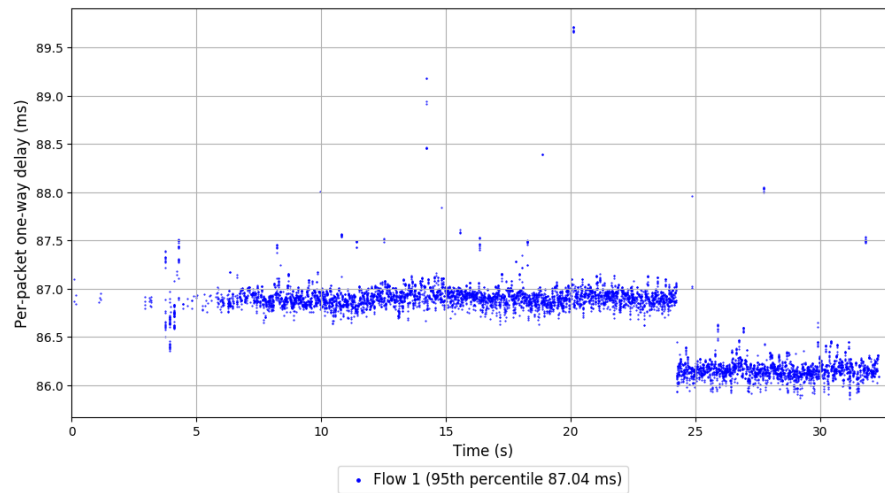
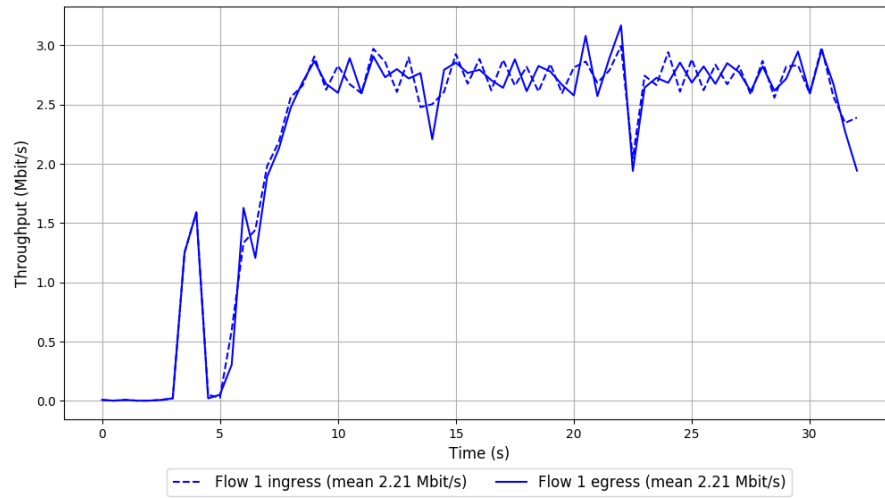
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.60%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 09:46:28

End at: 2018-01-16 09:46:58

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 86.959 ms

Loss rate: 0.73%

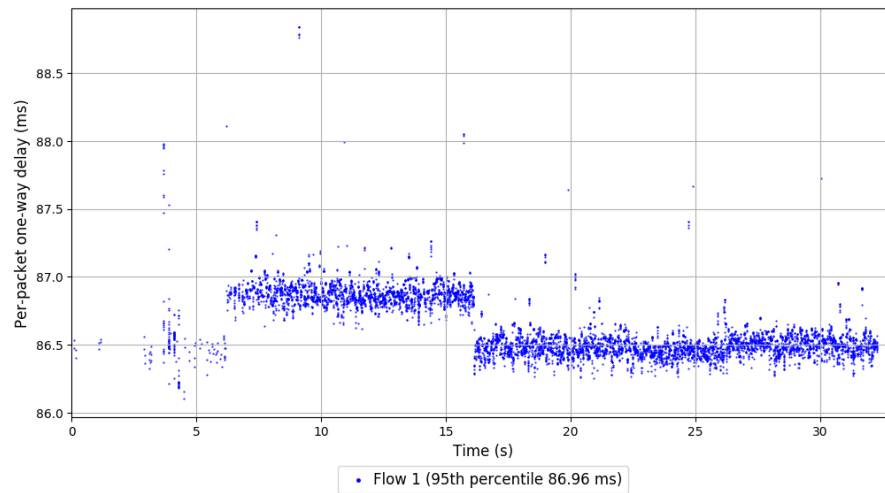
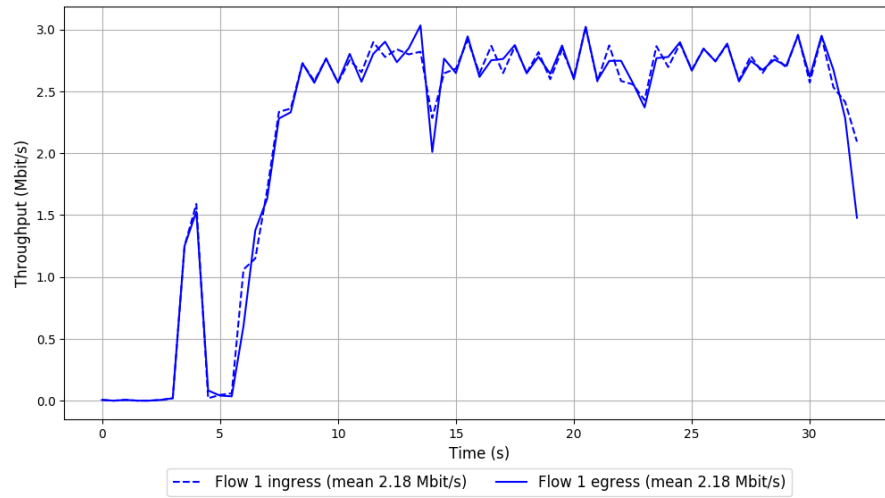
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 86.959 ms

Loss rate: 0.73%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-16 07:25:25

End at: 2018-01-16 07:25:55

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 88.938 ms

Loss rate: 0.99%

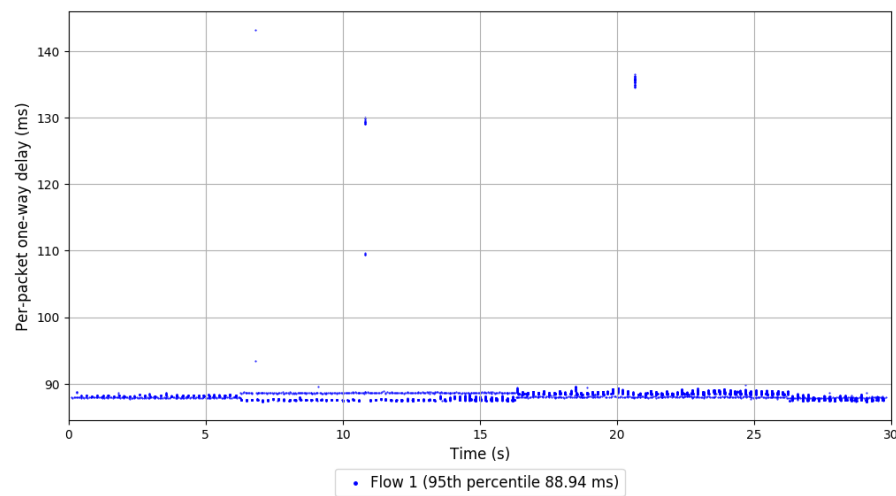
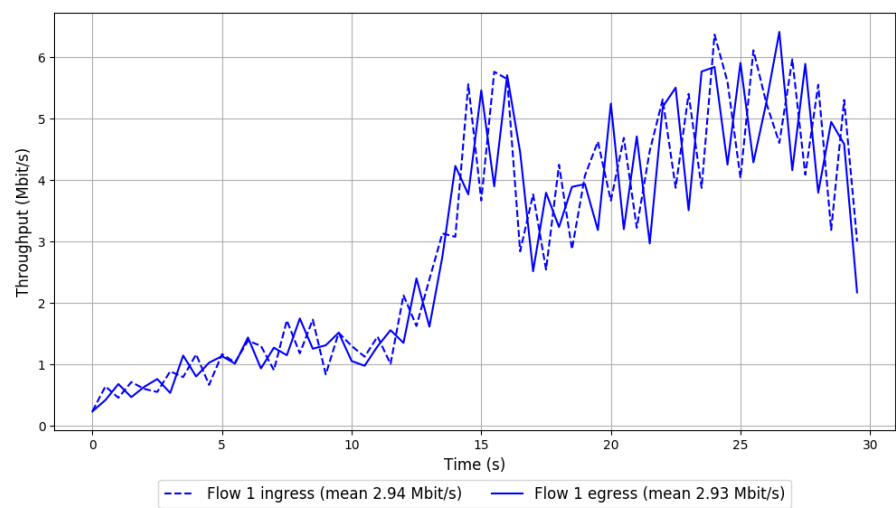
-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 88.938 ms

Loss rate: 0.99%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 07:40:12

End at: 2018-01-16 07:40:42

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 88.909 ms

Loss rate: 1.13%

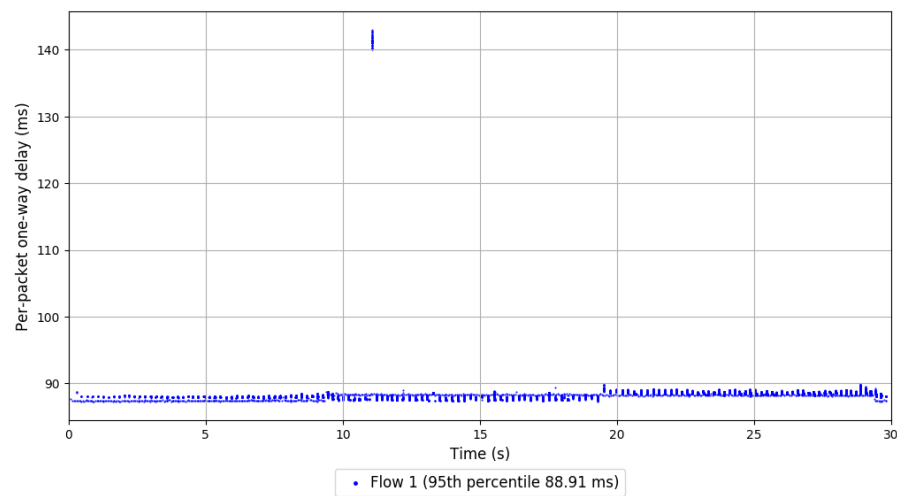
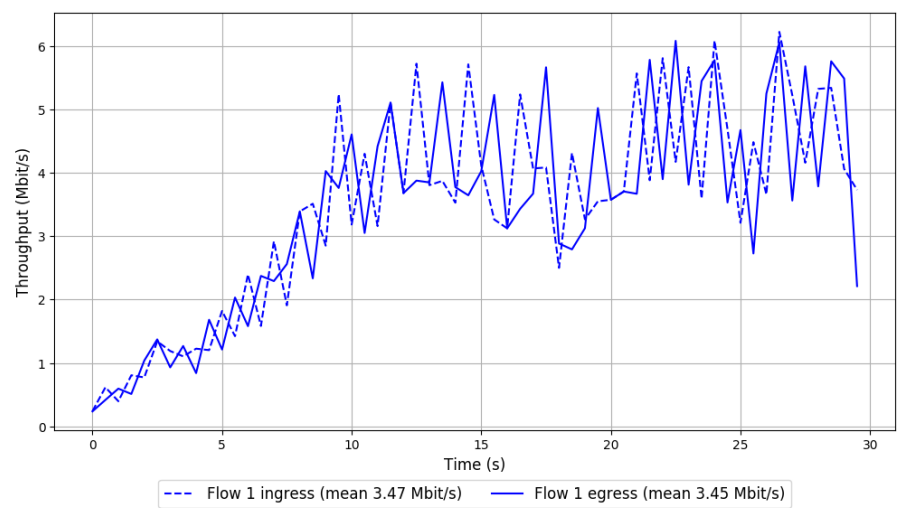
-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 88.909 ms

Loss rate: 1.13%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 07:55:49

End at: 2018-01-16 07:56:19

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 88.345 ms

Loss rate: 0.68%

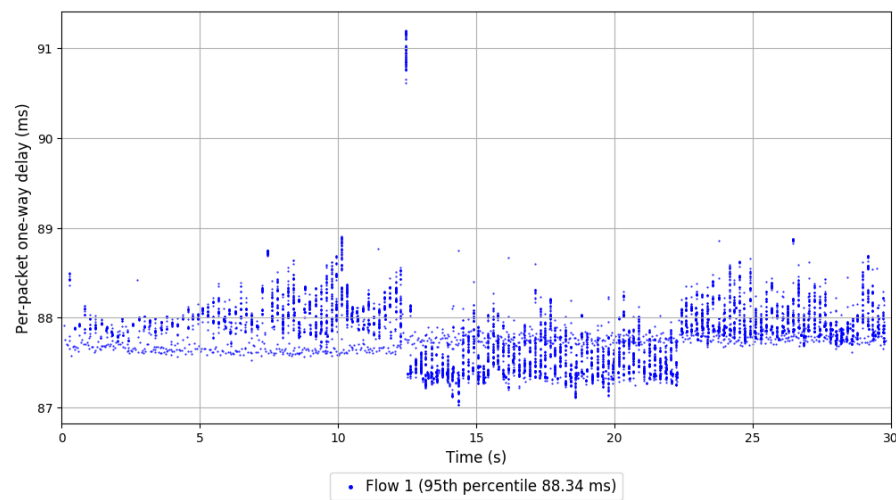
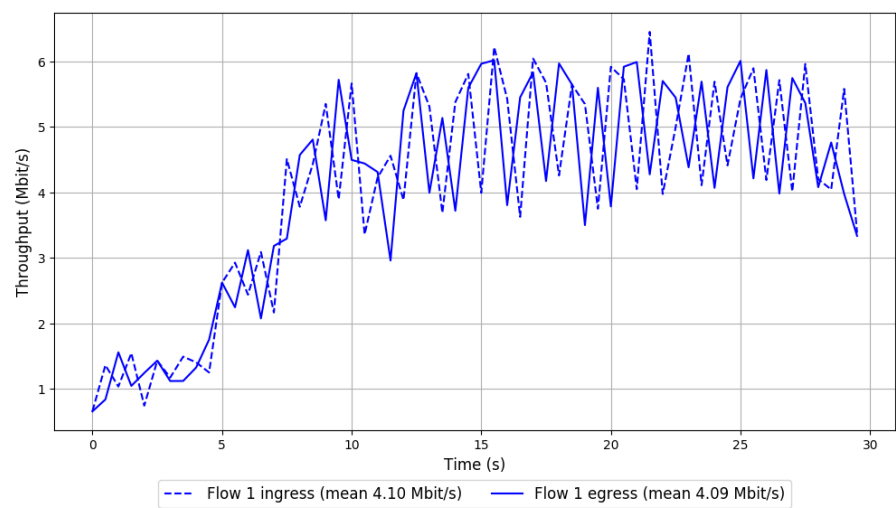
-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 88.345 ms

Loss rate: 0.68%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 08:10:48

End at: 2018-01-16 08:11:18

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 88.232 ms

Loss rate: 0.92%

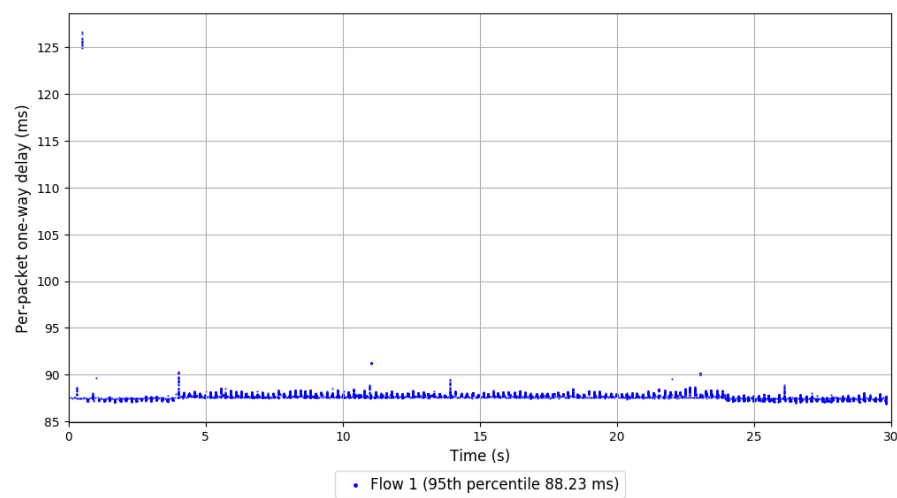
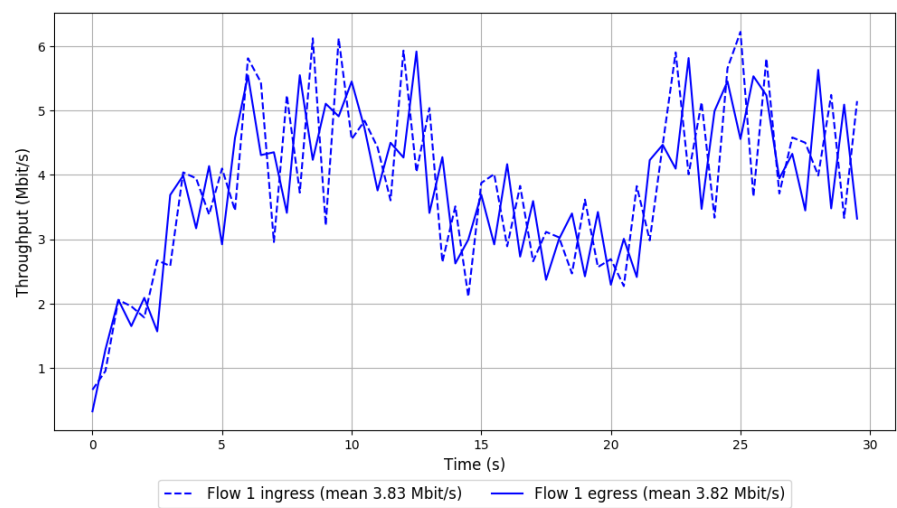
-- Flow 1:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 88.232 ms

Loss rate: 0.92%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 08:25:28

End at: 2018-01-16 08:25:58

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 115.761 ms

Loss rate: 0.46%

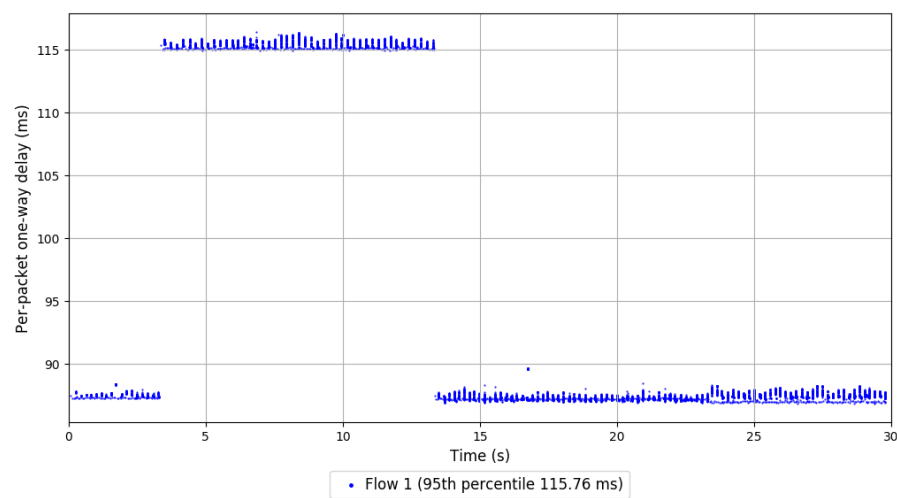
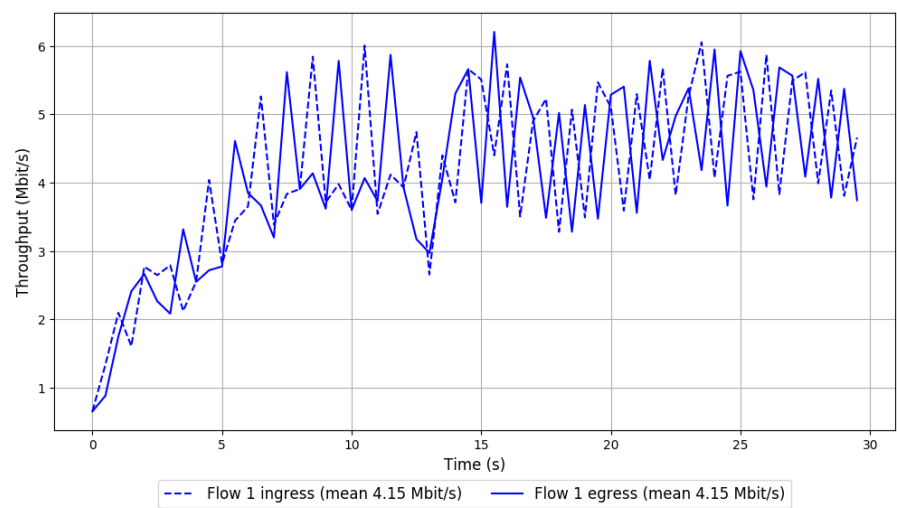
-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 115.761 ms

Loss rate: 0.46%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 08:40:16

End at: 2018-01-16 08:40:46

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 88.130 ms

Loss rate: 3.67%

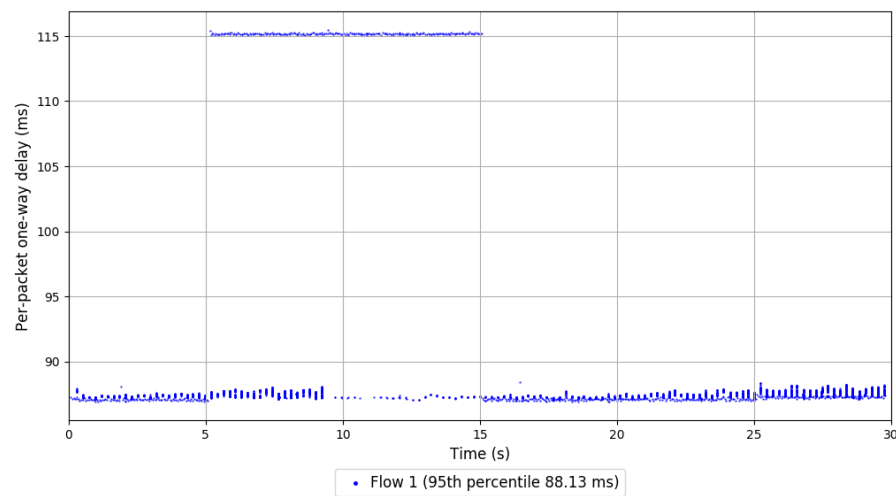
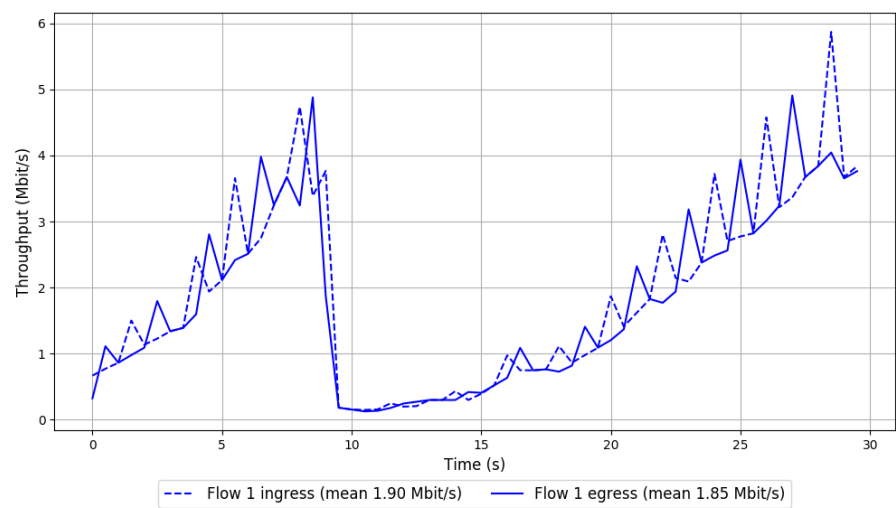
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 88.130 ms

Loss rate: 3.67%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 08:54:49

End at: 2018-01-16 08:55:19

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 88.861 ms

Loss rate: 0.95%

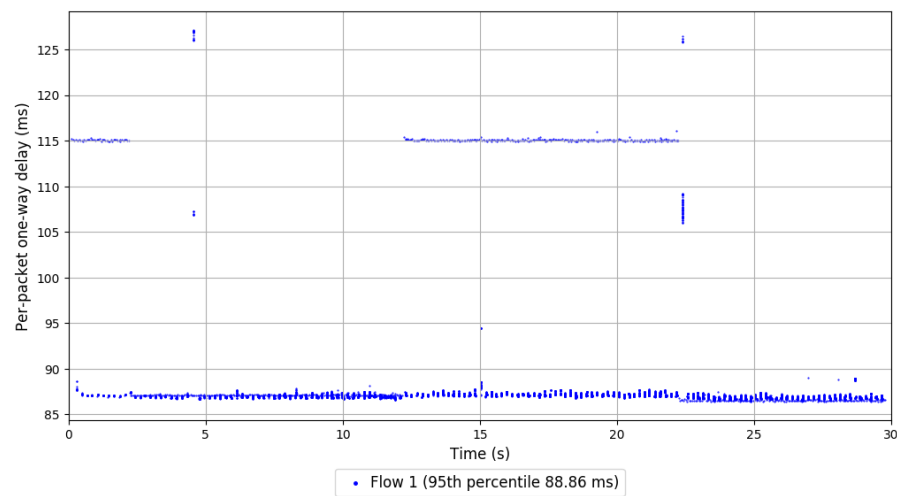
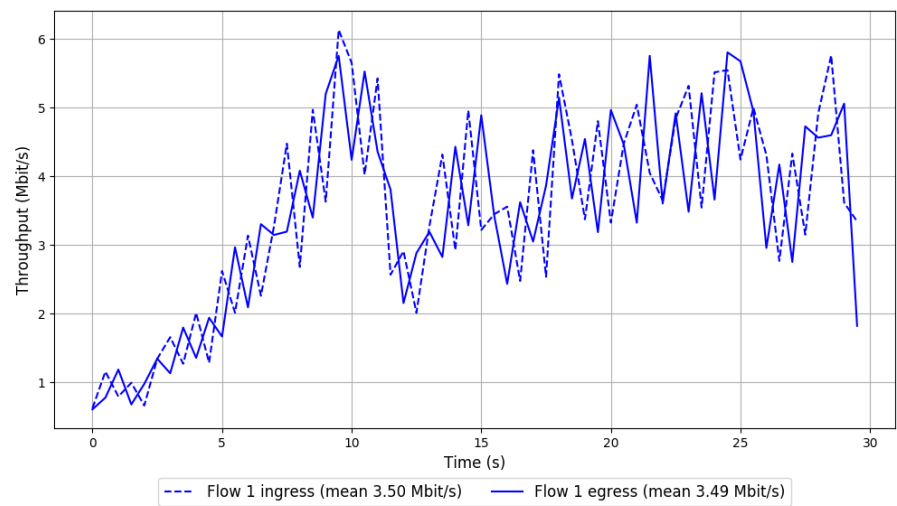
-- Flow 1:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 88.861 ms

Loss rate: 0.95%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 09:09:28

End at: 2018-01-16 09:09:58

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 114.993 ms

Loss rate: 2.04%

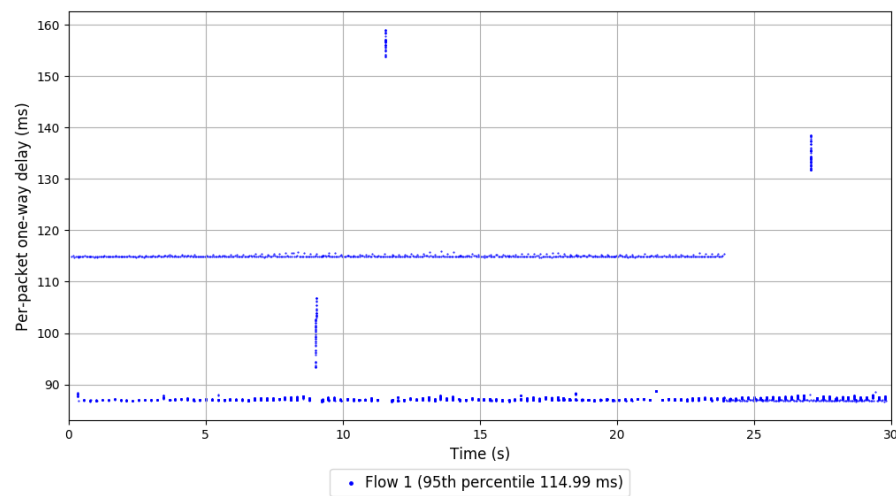
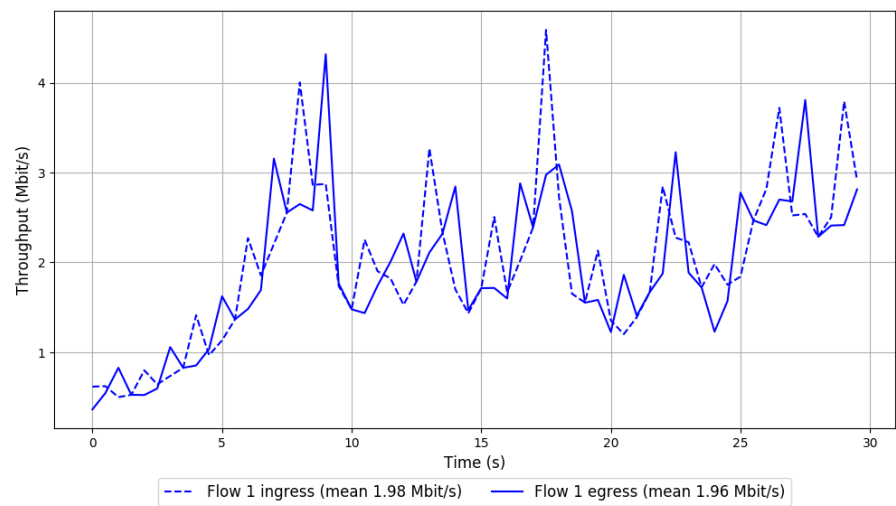
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 114.993 ms

Loss rate: 2.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 09:24:09

End at: 2018-01-16 09:24:39

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 87.551 ms

Loss rate: 2.30%

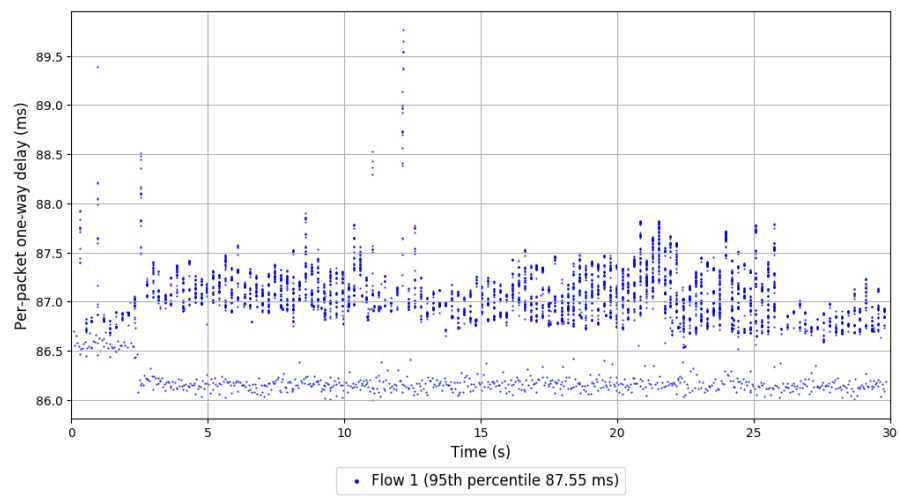
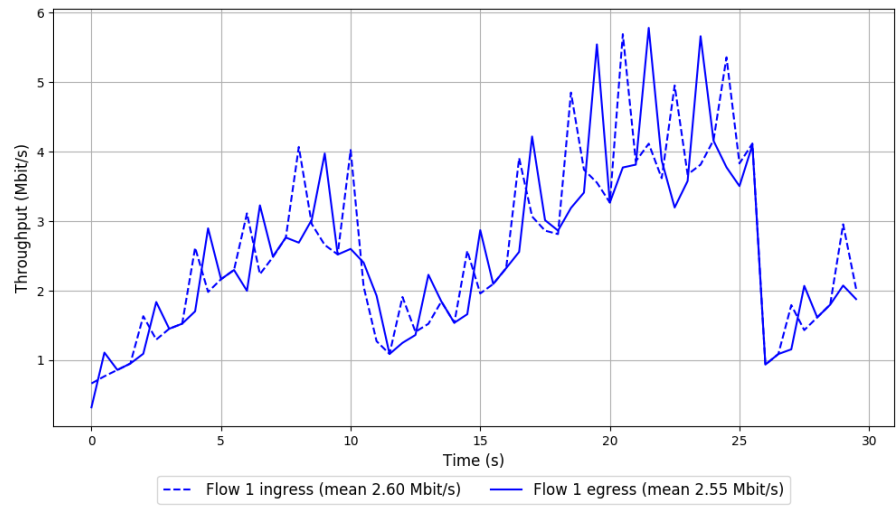
-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 87.551 ms

Loss rate: 2.30%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 09:38:36

End at: 2018-01-16 09:39:06

Below is generated by plot.py at 2018-01-16 12:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 114.468 ms

Loss rate: 2.28%

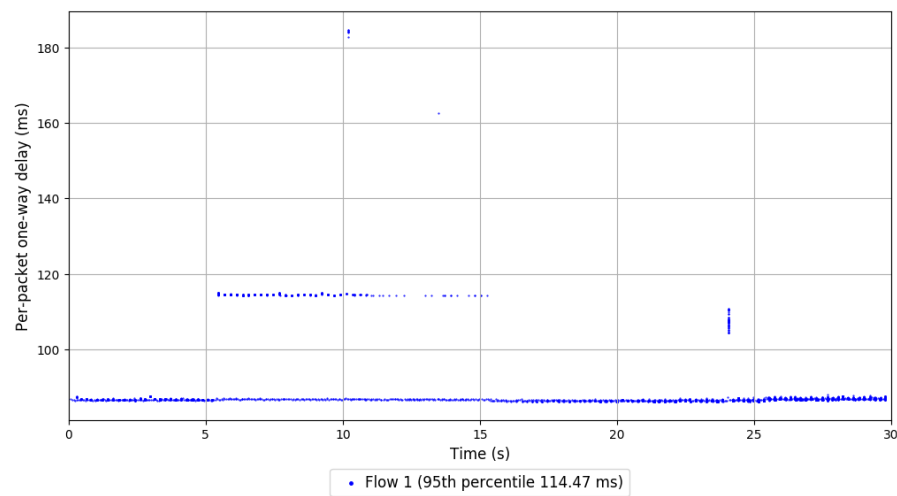
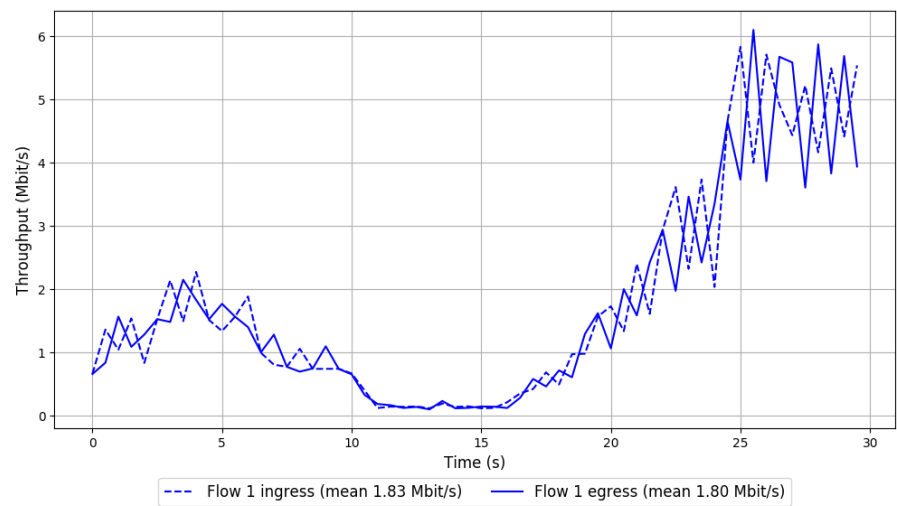
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 114.468 ms

Loss rate: 2.28%

Run 10: Report of Sprout — Data Link

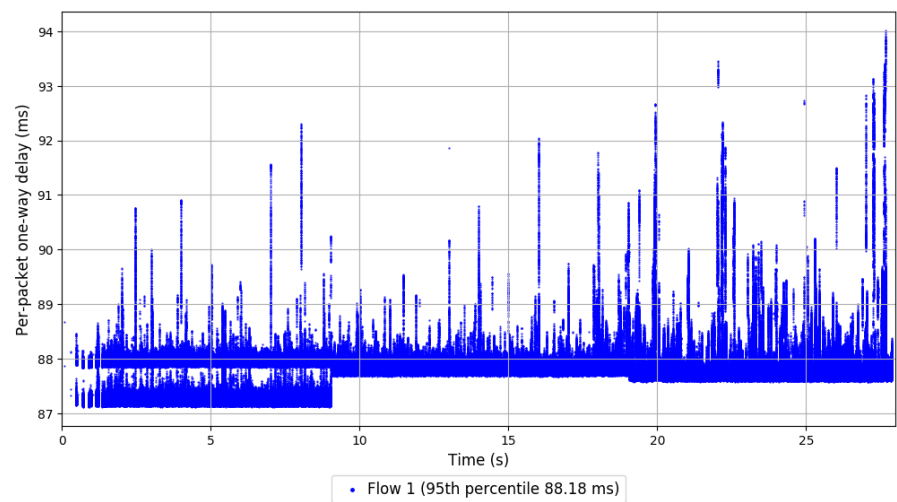
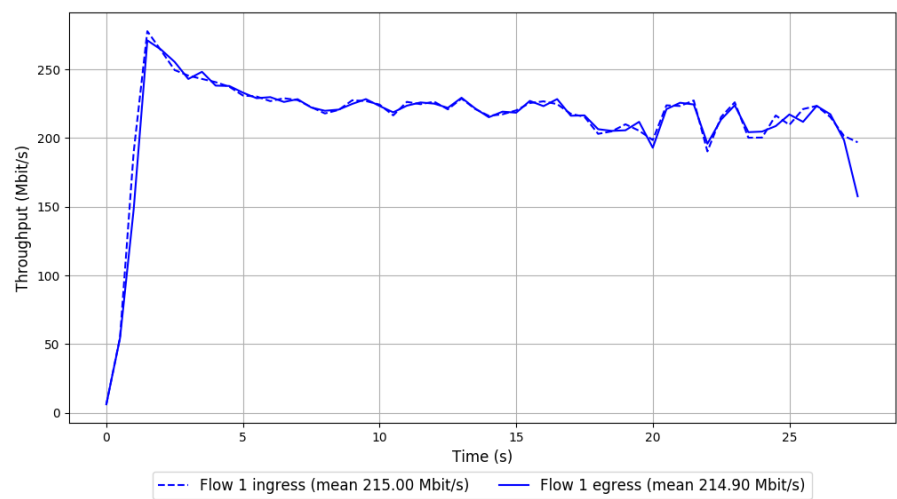


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 07:36:00
End at: 2018-01-16 07:36:30

# Below is generated by plot.py at 2018-01-16 12:41:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.90 Mbit/s
95th percentile per-packet one-way delay: 88.177 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 214.90 Mbit/s
95th percentile per-packet one-way delay: 88.177 ms
Loss rate: 0.68%
```


Run 1: Report of TaoVA-100x — Data Link

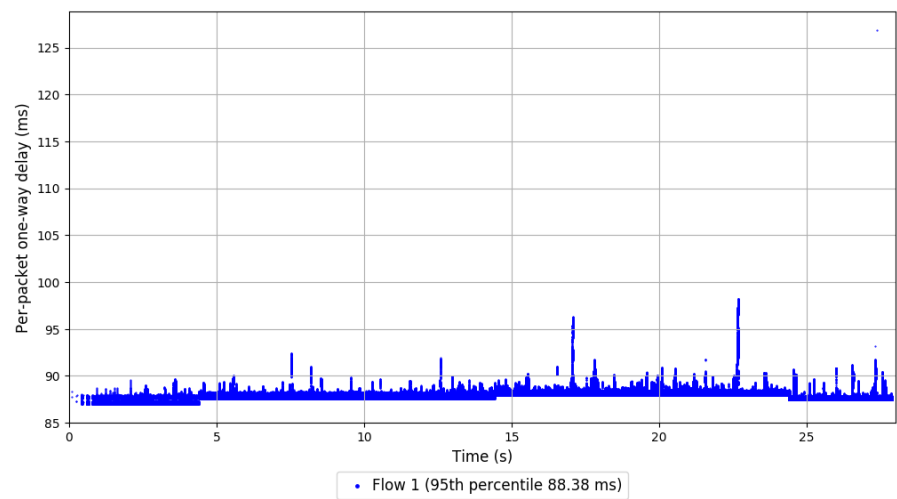
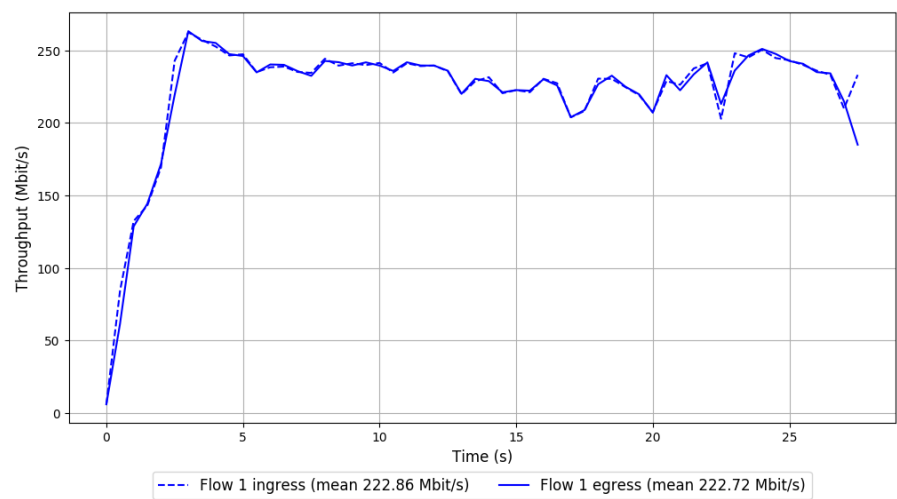


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 07:51:25
End at: 2018-01-16 07:51:55

# Below is generated by plot.py at 2018-01-16 12:41:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.72 Mbit/s
95th percentile per-packet one-way delay: 88.380 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 222.72 Mbit/s
95th percentile per-packet one-way delay: 88.380 ms
Loss rate: 0.68%
```

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 08:06:28

End at: 2018-01-16 08:06:58

Below is generated by plot.py at 2018-01-16 12:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.06 Mbit/s

95th percentile per-packet one-way delay: 88.102 ms

Loss rate: 0.52%

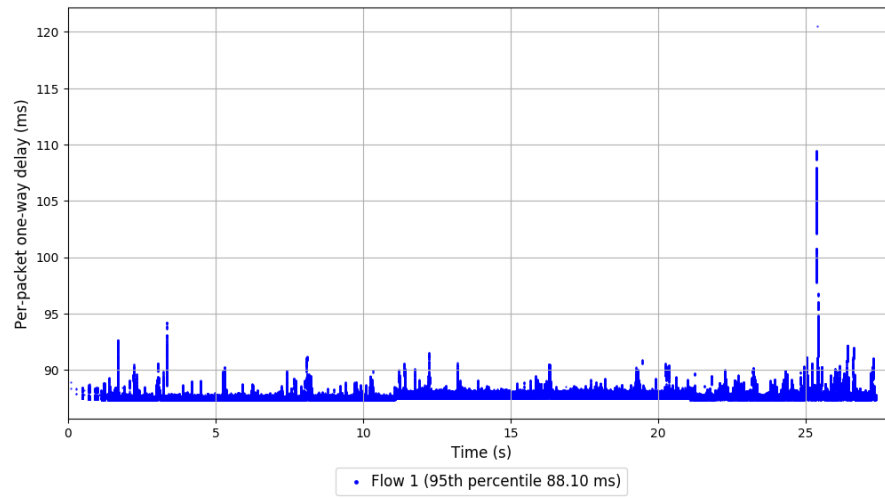
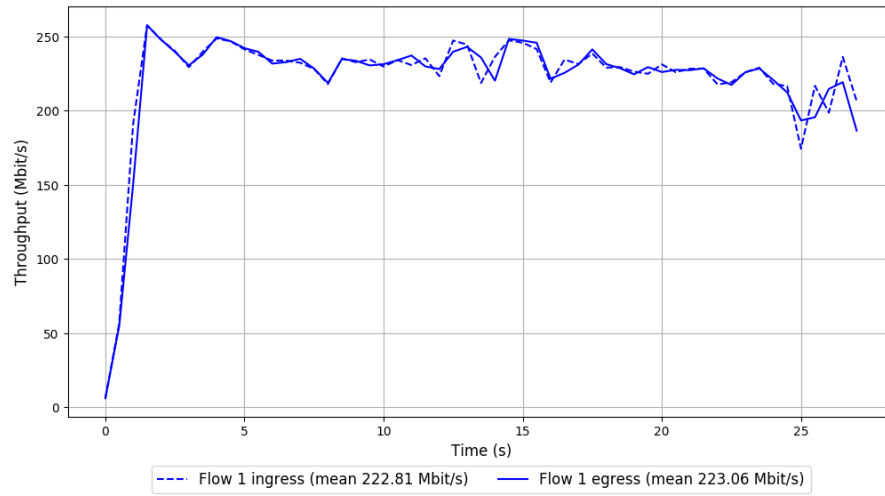
-- Flow 1:

Average throughput: 223.06 Mbit/s

95th percentile per-packet one-way delay: 88.102 ms

Loss rate: 0.52%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 08:21:16

End at: 2018-01-16 08:21:46

Below is generated by plot.py at 2018-01-16 12:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.38 Mbit/s

95th percentile per-packet one-way delay: 87.967 ms

Loss rate: 0.68%

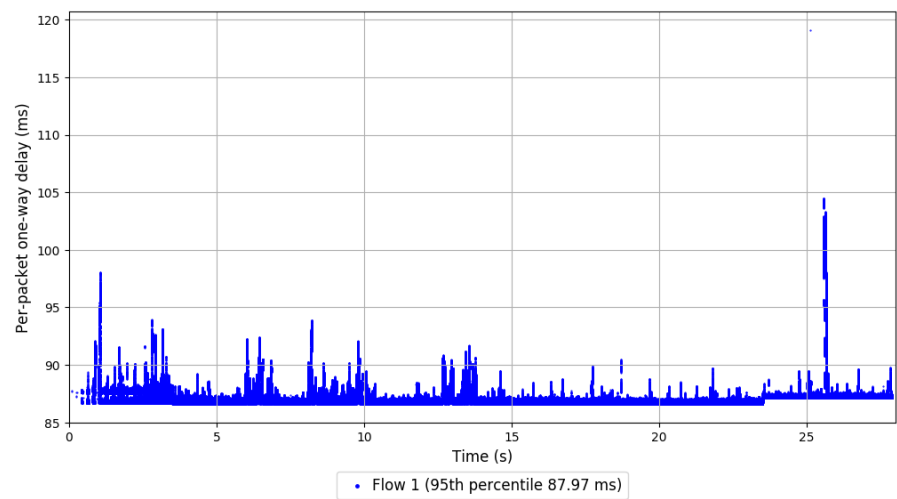
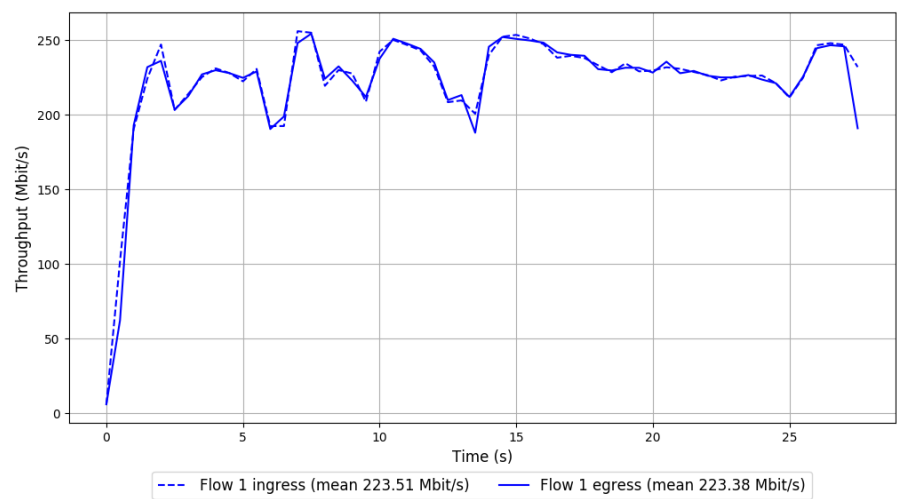
-- Flow 1:

Average throughput: 223.38 Mbit/s

95th percentile per-packet one-way delay: 87.967 ms

Loss rate: 0.68%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 08:36:11

End at: 2018-01-16 08:36:41

Below is generated by plot.py at 2018-01-16 12:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.39 Mbit/s

95th percentile per-packet one-way delay: 88.291 ms

Loss rate: 0.79%

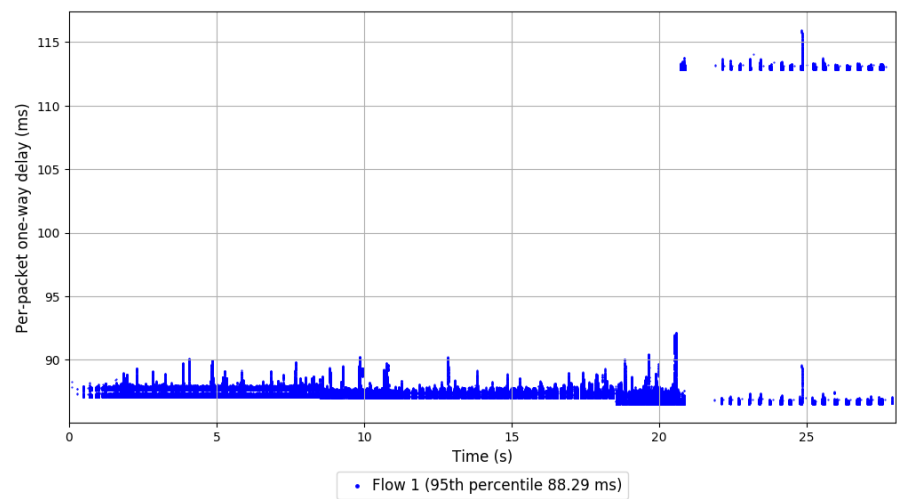
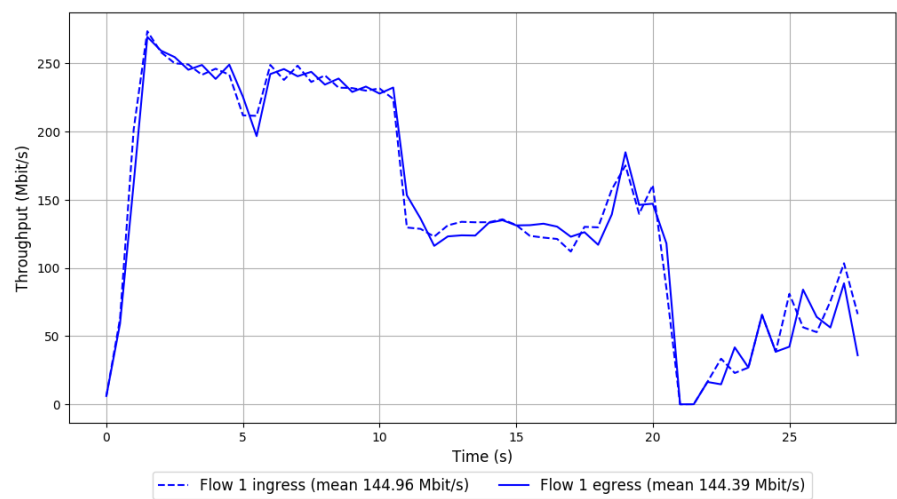
-- Flow 1:

Average throughput: 144.39 Mbit/s

95th percentile per-packet one-way delay: 88.291 ms

Loss rate: 0.79%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 08:50:51

End at: 2018-01-16 08:51:21

Below is generated by plot.py at 2018-01-16 12:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.20 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.80%

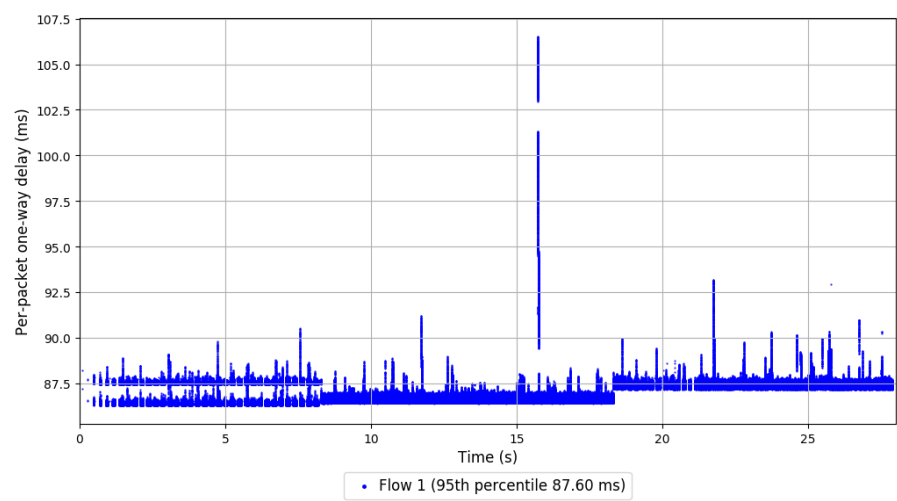
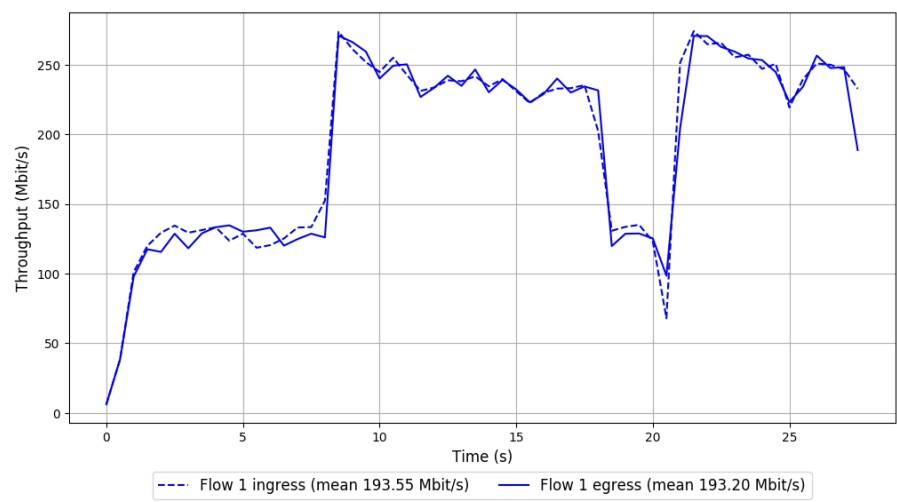
-- Flow 1:

Average throughput: 193.20 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.80%

Run 6: Report of TaoVA-100x — Data Link

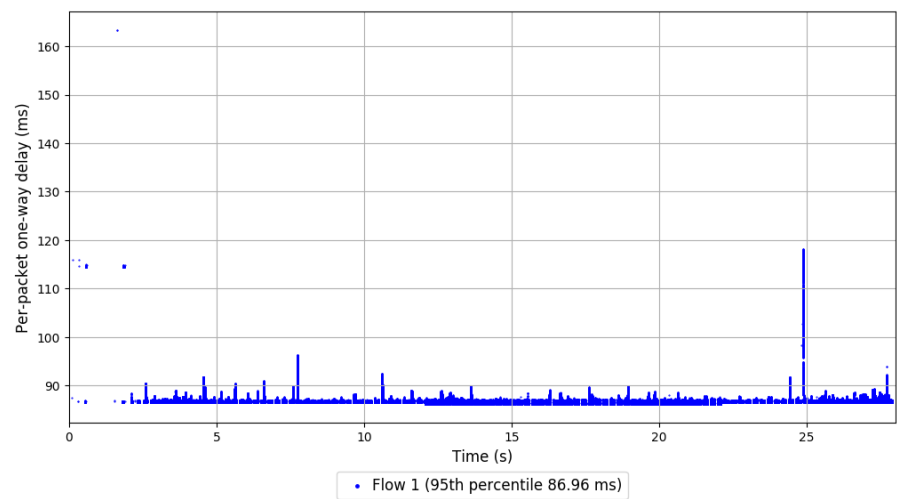
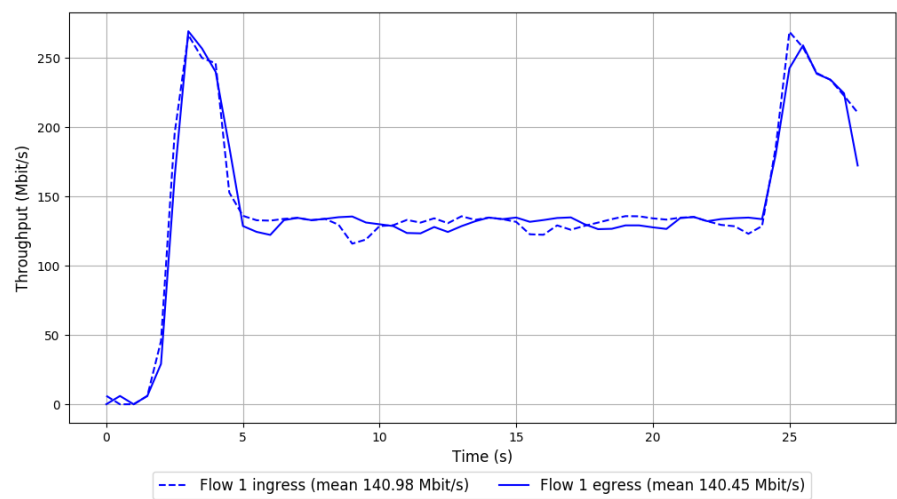


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 09:05:07
End at: 2018-01-16 09:05:37

# Below is generated by plot.py at 2018-01-16 12:41:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.45 Mbit/s
95th percentile per-packet one-way delay: 86.958 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 140.45 Mbit/s
95th percentile per-packet one-way delay: 86.958 ms
Loss rate: 1.00%
```

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 09:20:12

End at: 2018-01-16 09:20:42

Below is generated by plot.py at 2018-01-16 12:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 1.22%

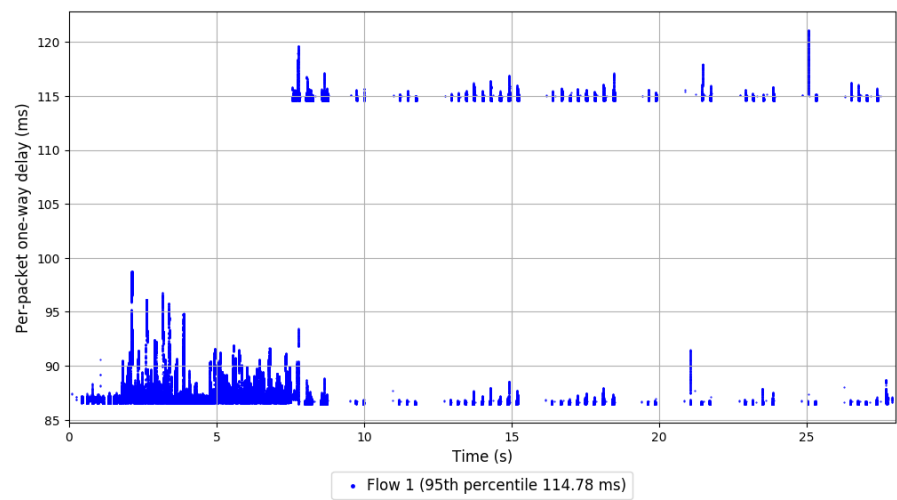
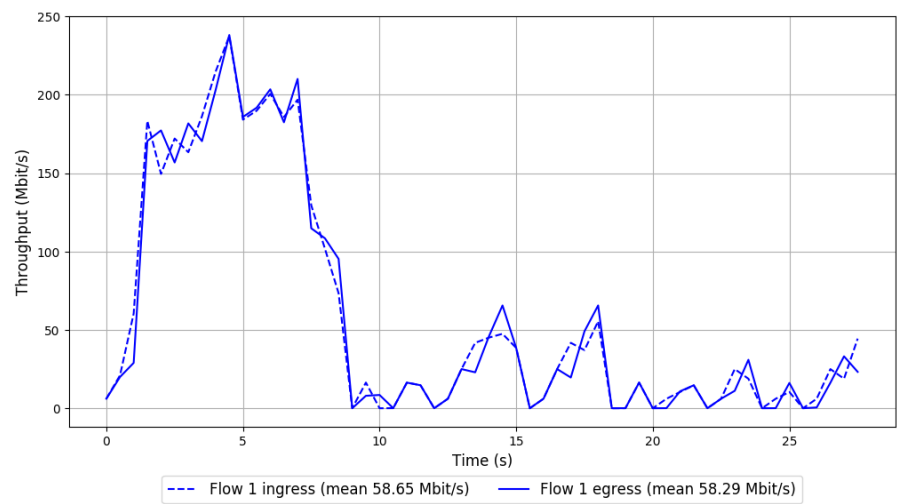
-- Flow 1:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 1.22%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 09:34:45

End at: 2018-01-16 09:35:15

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.21 Mbit/s

95th percentile per-packet one-way delay: 88.865 ms

Loss rate: 0.72%

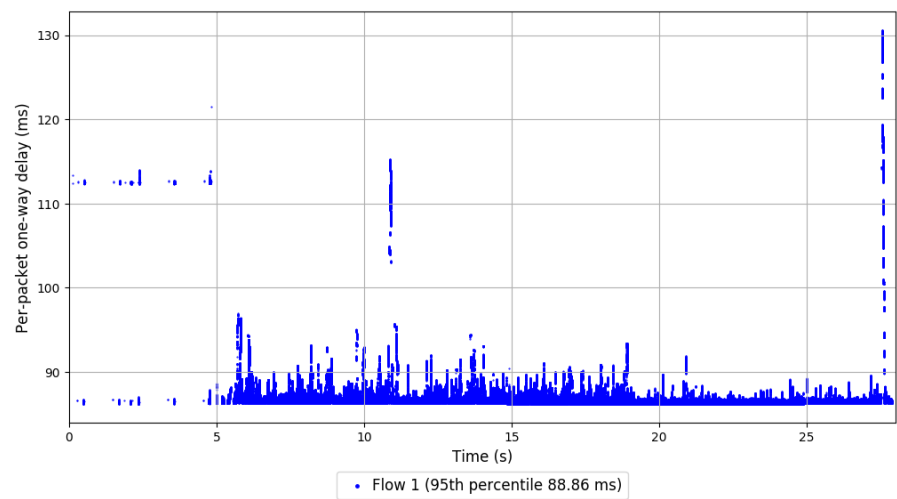
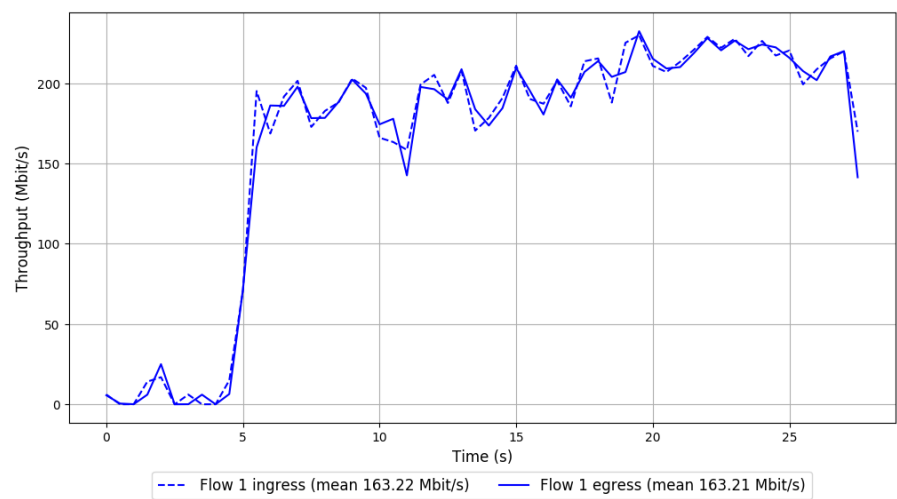
-- Flow 1:

Average throughput: 163.21 Mbit/s

95th percentile per-packet one-way delay: 88.865 ms

Loss rate: 0.72%

Run 9: Report of TaoVA-100x — Data Link

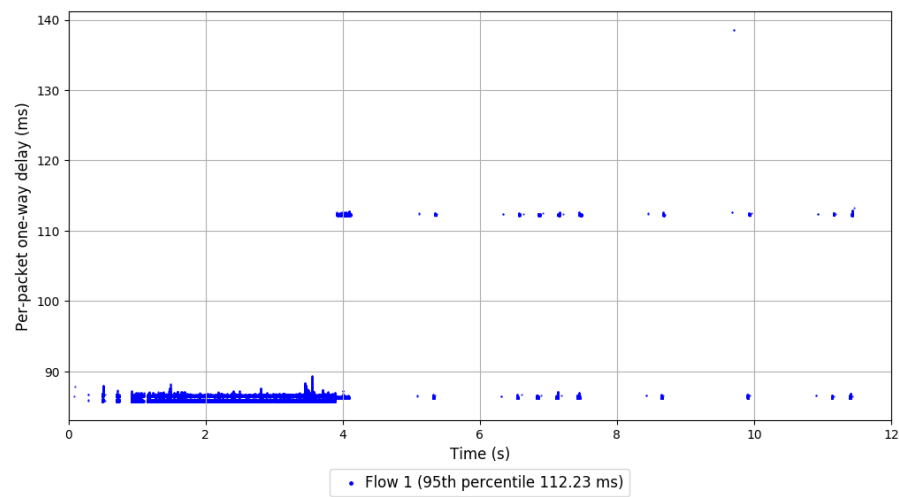
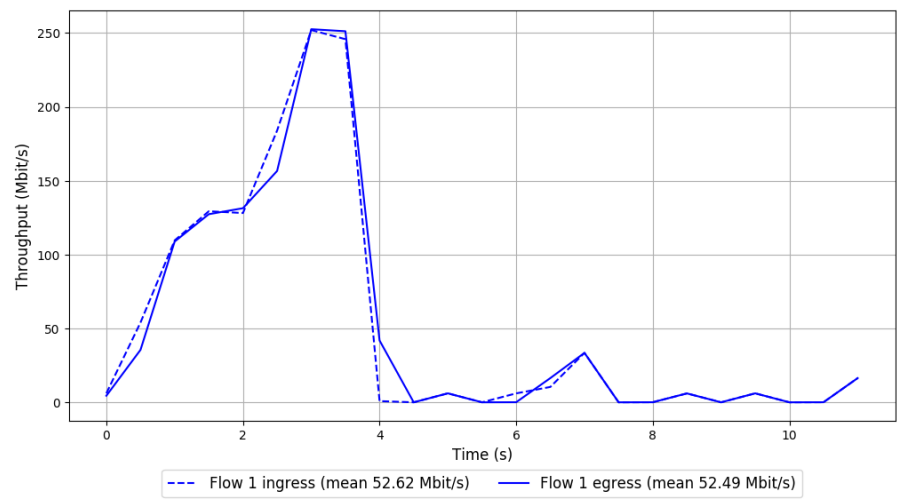


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 09:49:36

End at: 2018-01-16 09:50:06

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 07:37:00

End at: 2018-01-16 07:37:30

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 89.194 ms

Loss rate: 0.37%

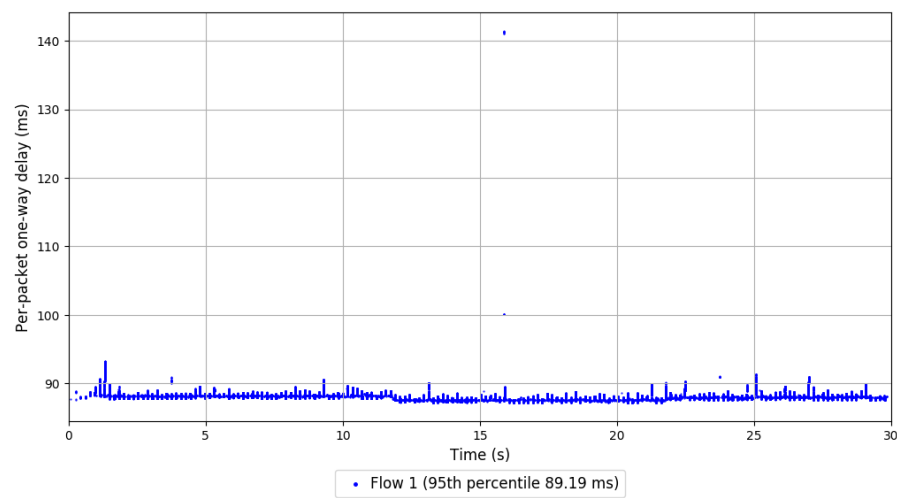
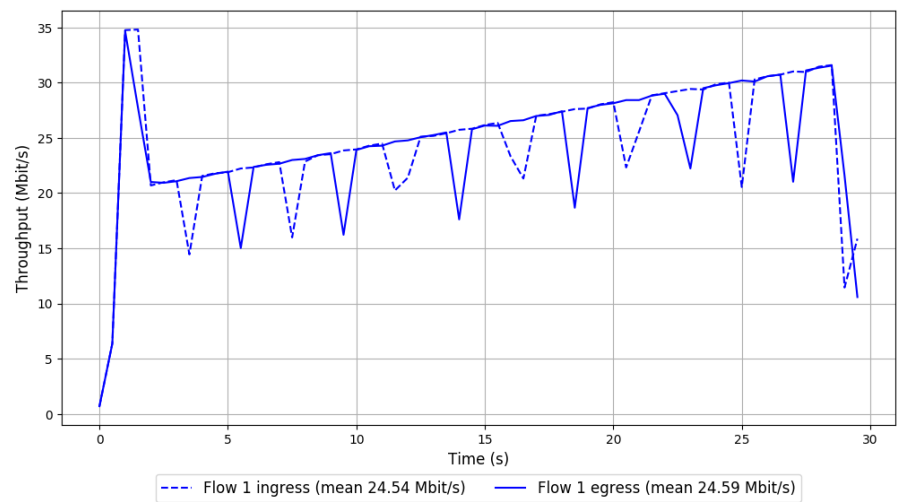
-- Flow 1:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 89.194 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 07:52:25

End at: 2018-01-16 07:52:55

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 89.073 ms

Loss rate: 0.68%

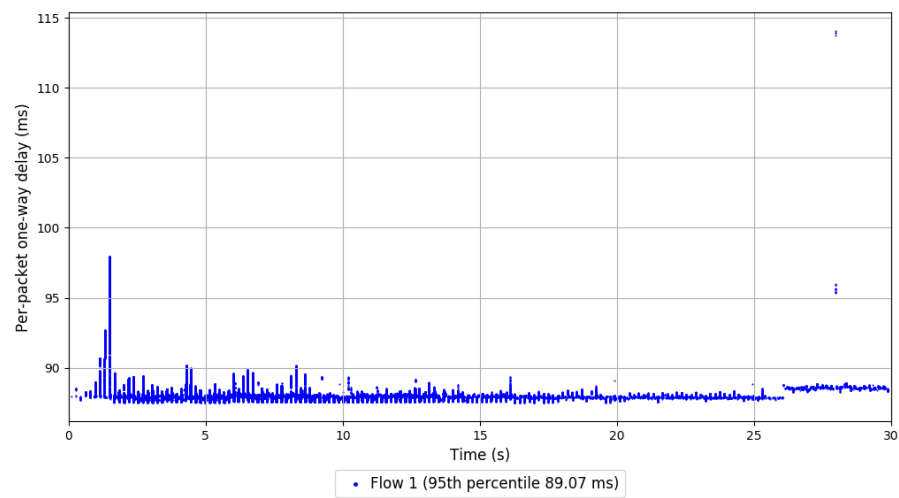
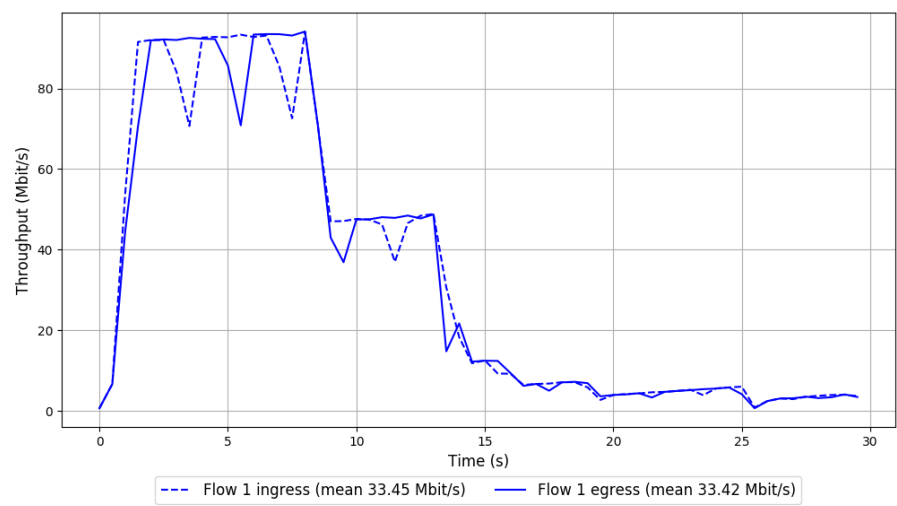
-- Flow 1:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 89.073 ms

Loss rate: 0.68%

Run 2: Report of TCP Vegas — Data Link

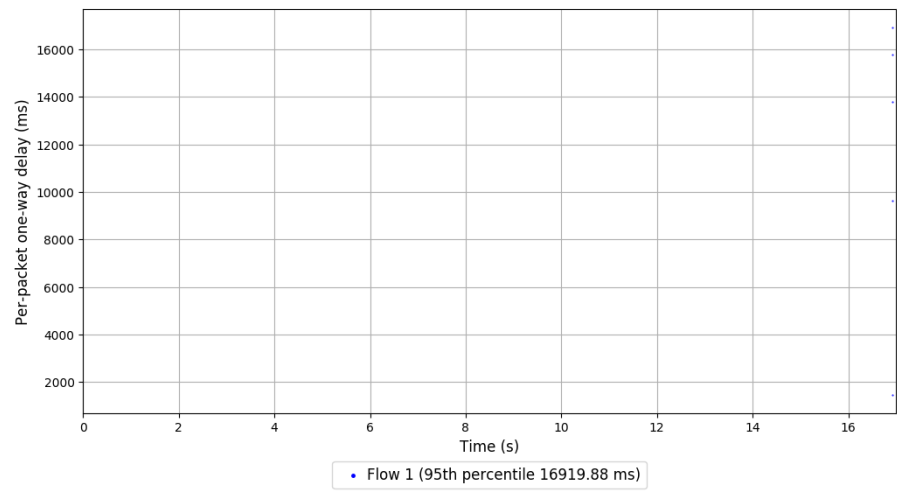
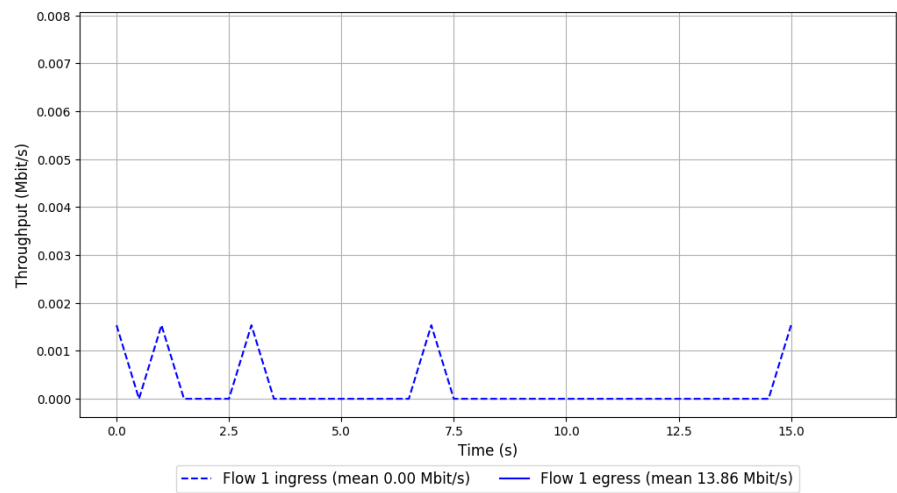


Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 08:07:30

End at: 2018-01-16 08:08:00

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 08:22:16

End at: 2018-01-16 08:22:46

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 88.948 ms

Loss rate: 0.59%

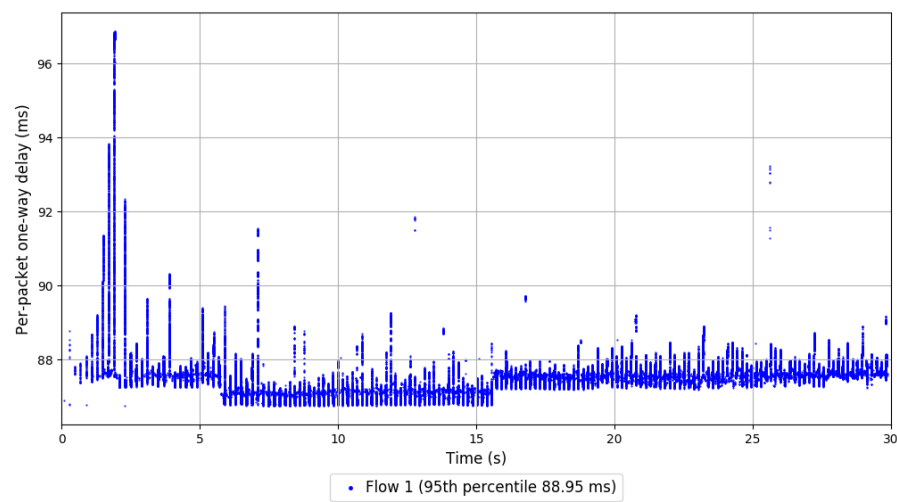
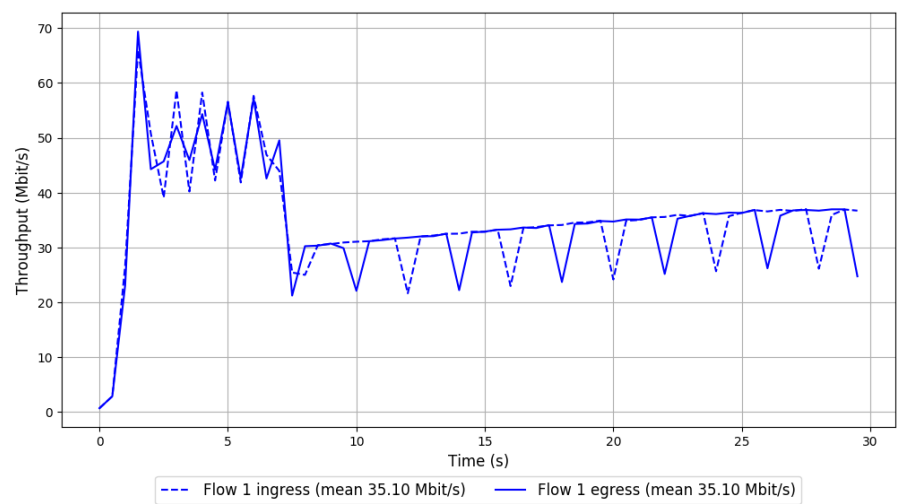
-- Flow 1:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 88.948 ms

Loss rate: 0.59%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 08:37:04

End at: 2018-01-16 08:37:34

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 113.411 ms

Loss rate: 0.42%

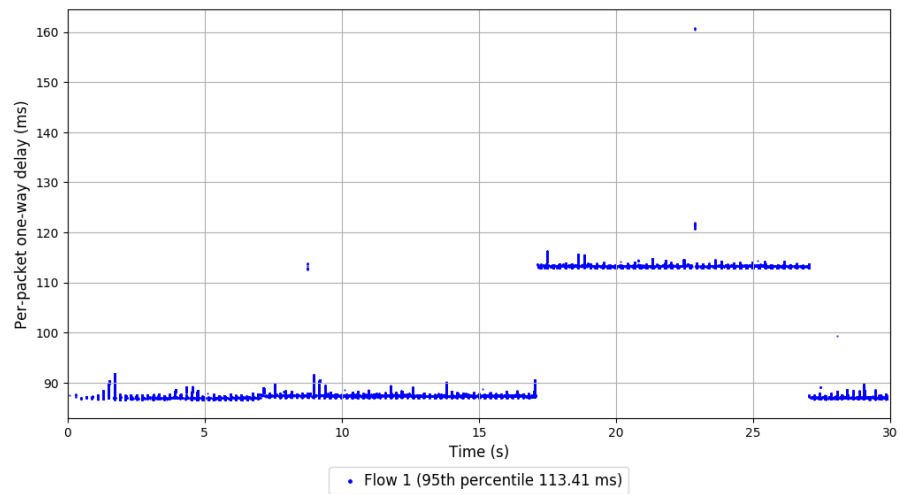
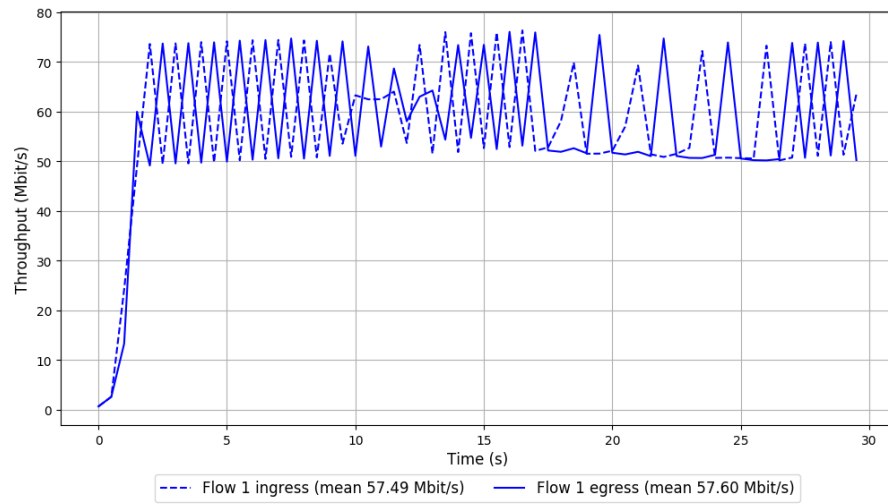
-- Flow 1:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 113.411 ms

Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 08:51:48

End at: 2018-01-16 08:52:18

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 88.135 ms

Loss rate: 0.56%

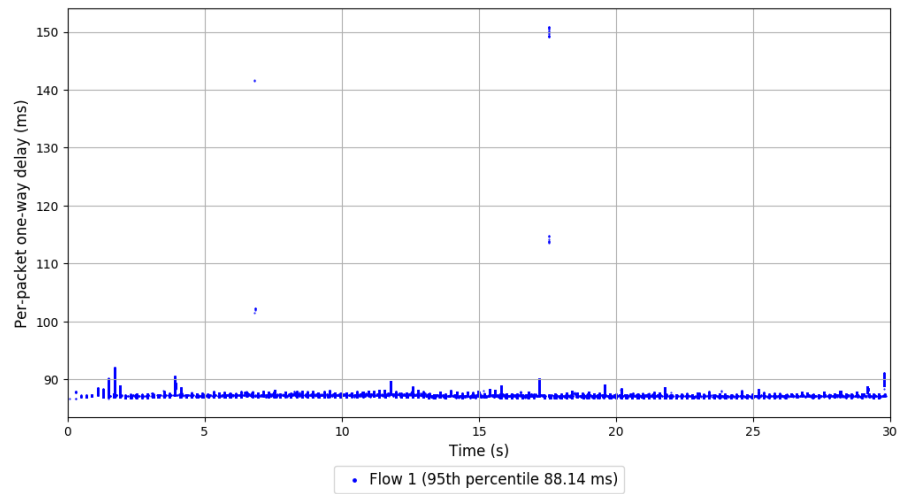
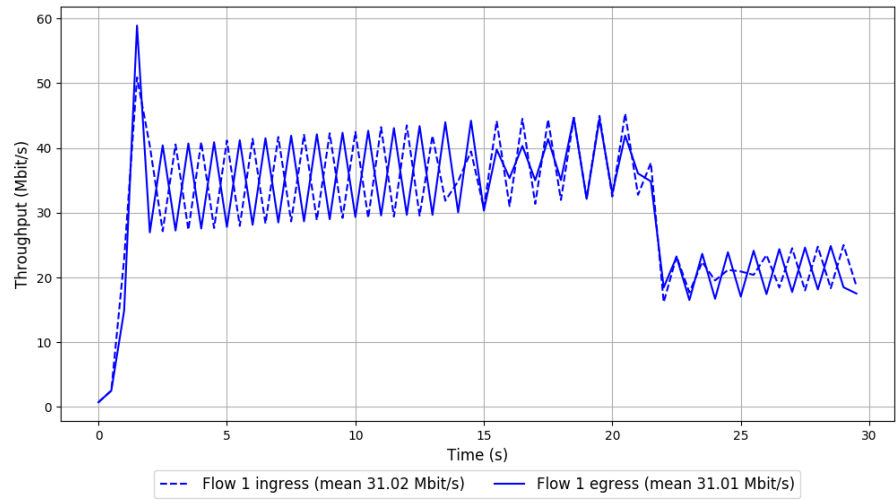
-- Flow 1:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 88.135 ms

Loss rate: 0.56%

Run 6: Report of TCP Vegas — Data Link

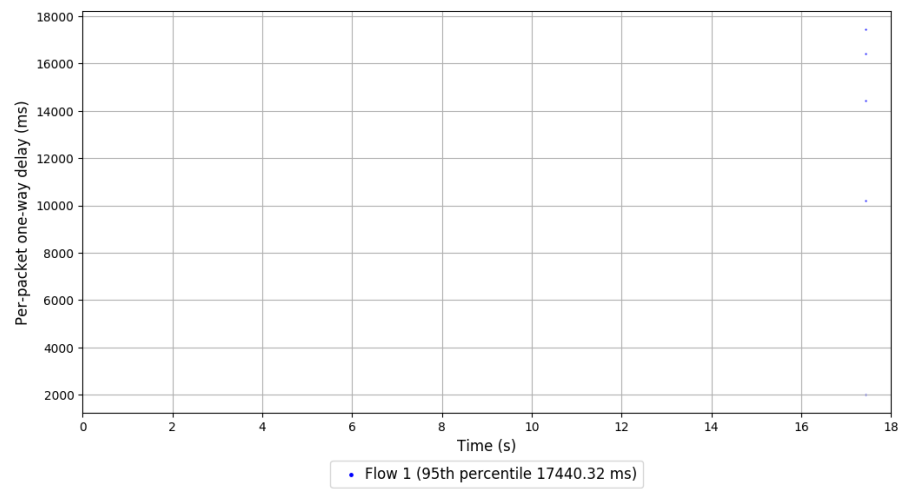
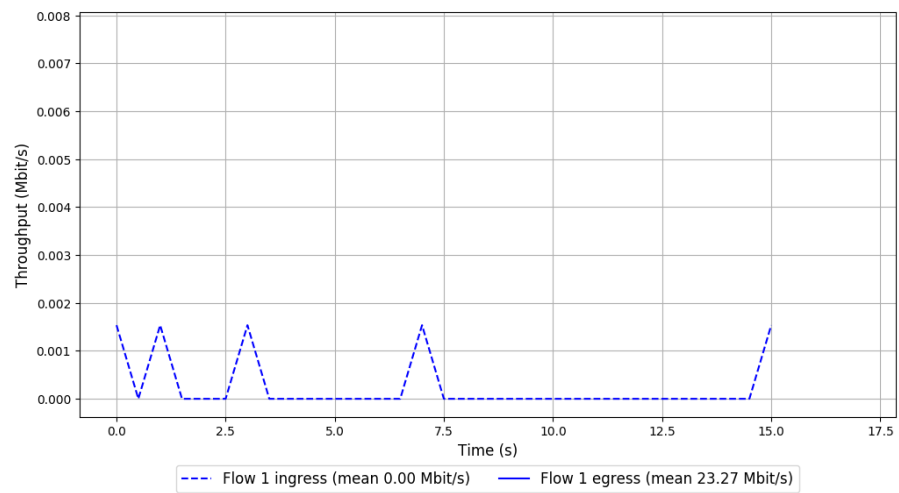


Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 09:06:01

End at: 2018-01-16 09:06:31

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 09:20:57

End at: 2018-01-16 09:21:27

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.24 Mbit/s

95th percentile per-packet one-way delay: 96.559 ms

Loss rate: 0.76%

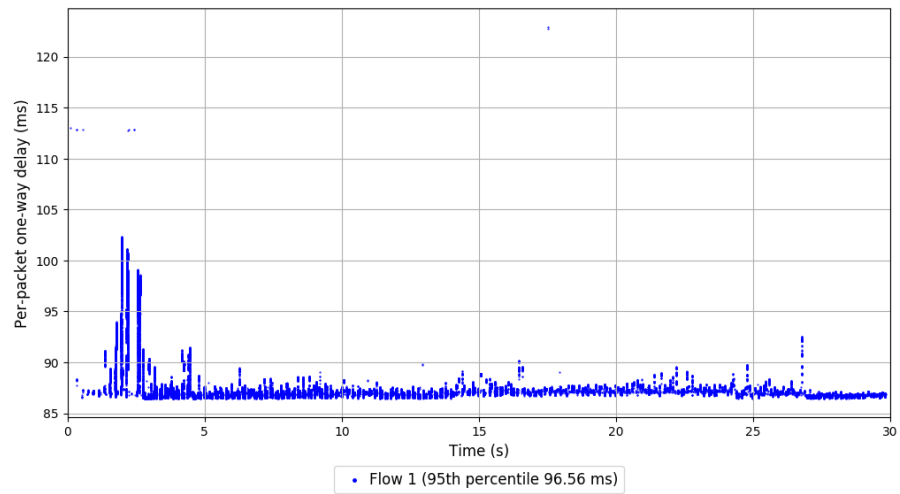
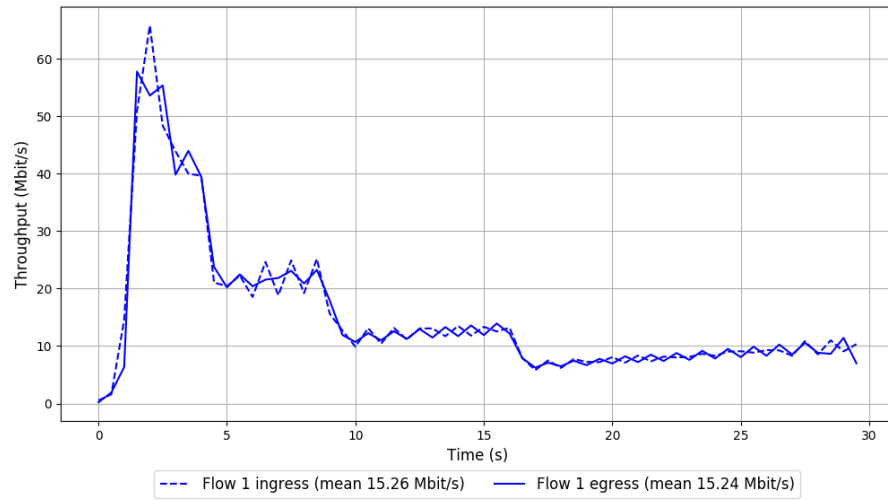
-- Flow 1:

Average throughput: 15.24 Mbit/s

95th percentile per-packet one-way delay: 96.559 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 09:35:40

End at: 2018-01-16 09:36:11

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 88.852 ms

Loss rate: 1.64%

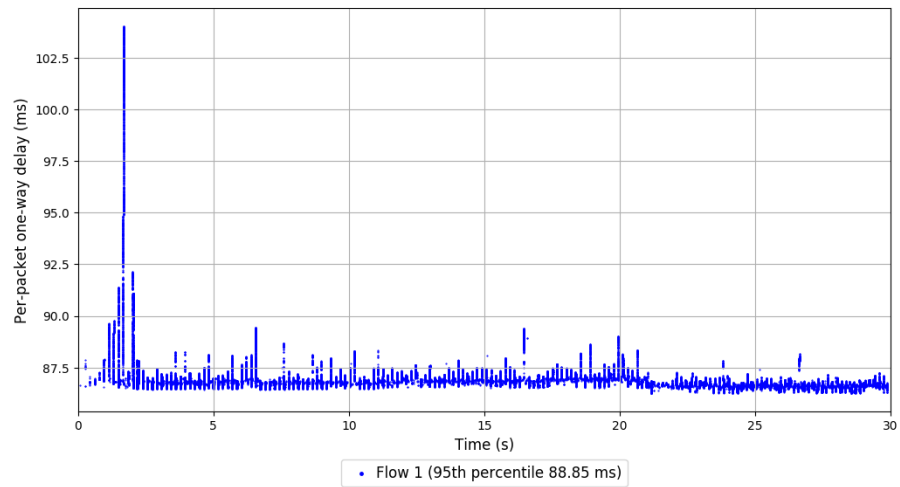
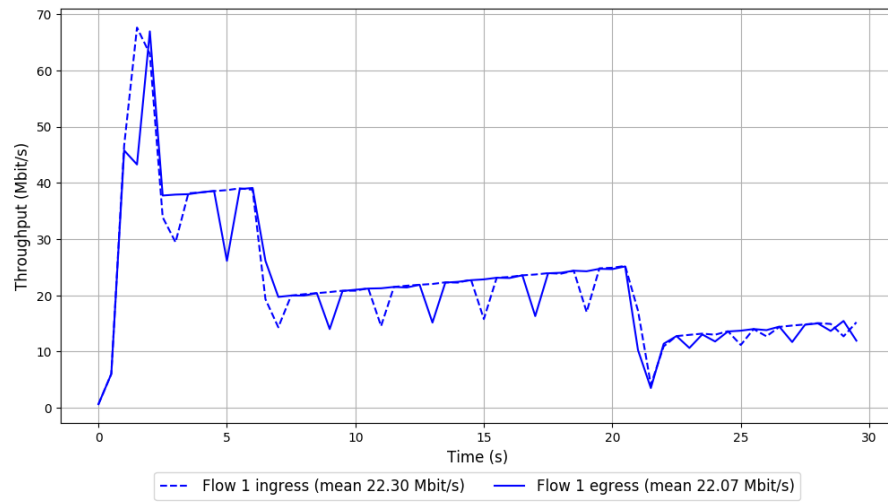
-- Flow 1:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 88.852 ms

Loss rate: 1.64%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 09:50:18

End at: 2018-01-16 09:50:48

Below is generated by plot.py at 2018-01-16 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 88.676 ms

Loss rate: 0.40%

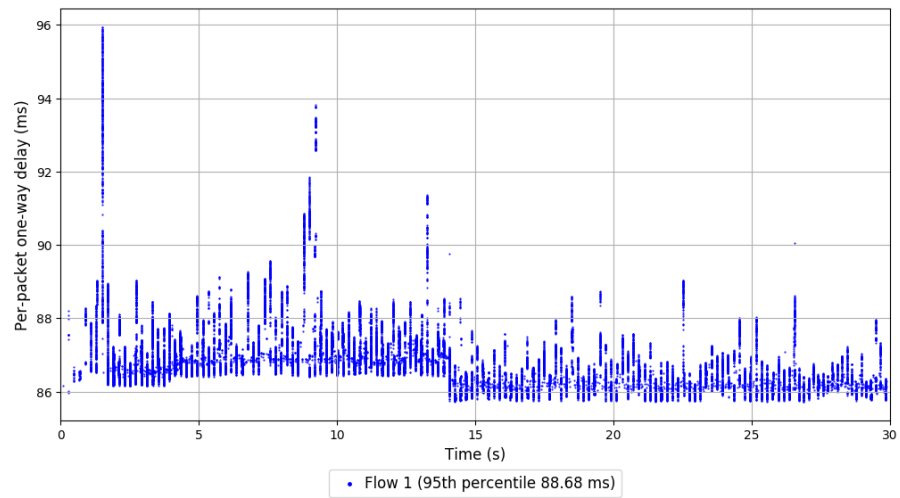
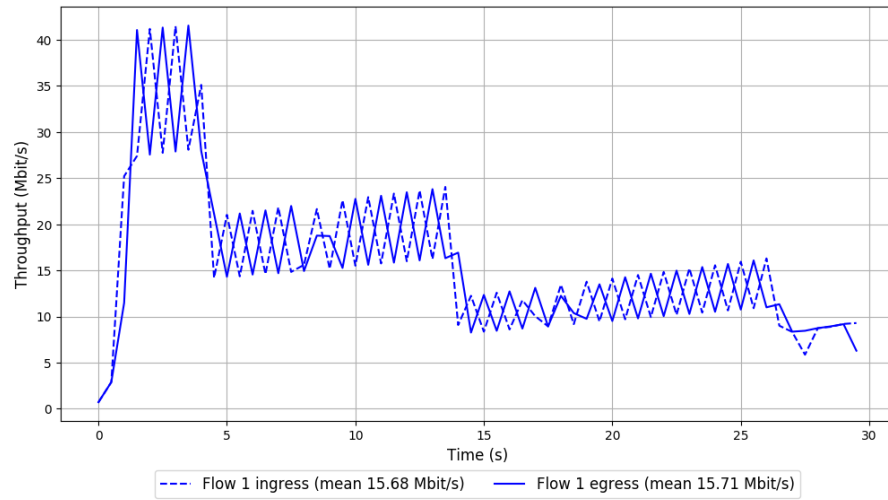
-- Flow 1:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 88.676 ms

Loss rate: 0.40%

Run 10: Report of TCP Vegas — Data Link

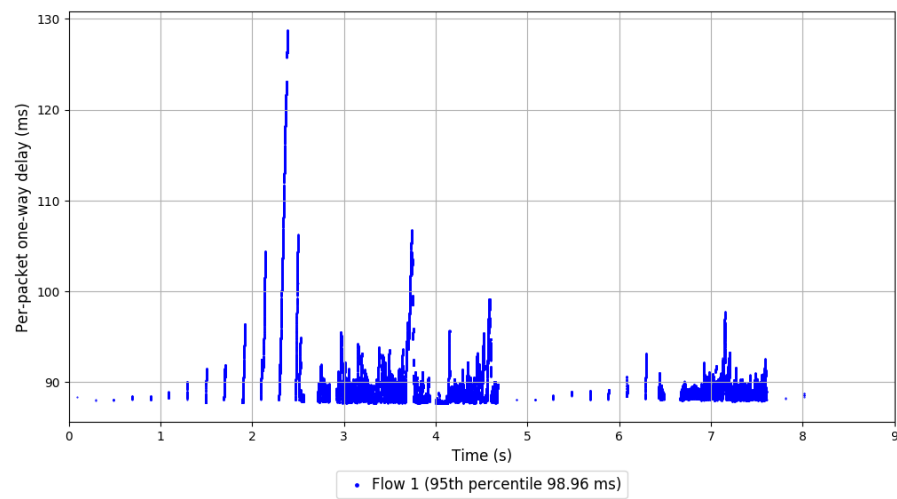
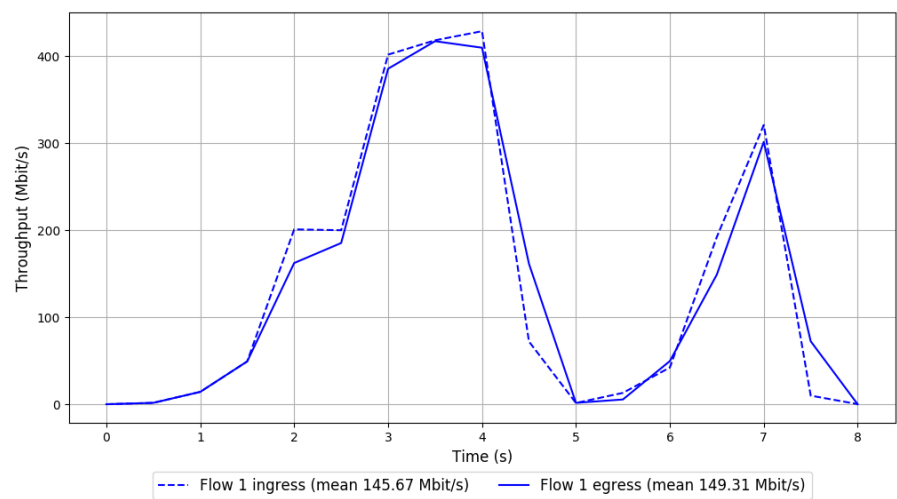


Run 1: Statistics of Verus

Start at: 2018-01-16 07:26:44

End at: 2018-01-16 07:27:14

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 07:41:31

End at: 2018-01-16 07:42:01

Below is generated by plot.py at 2018-01-16 12:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.61 Mbit/s

95th percentile per-packet one-way delay: 245.955 ms

Loss rate: 3.18%

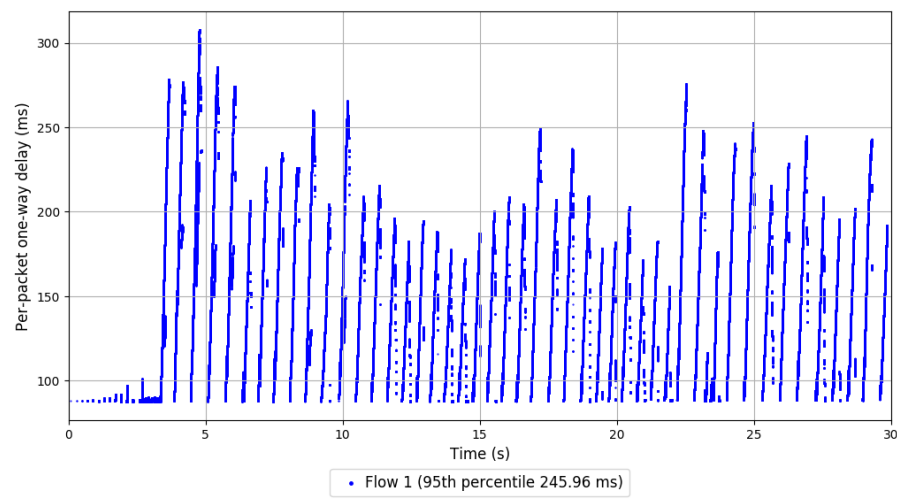
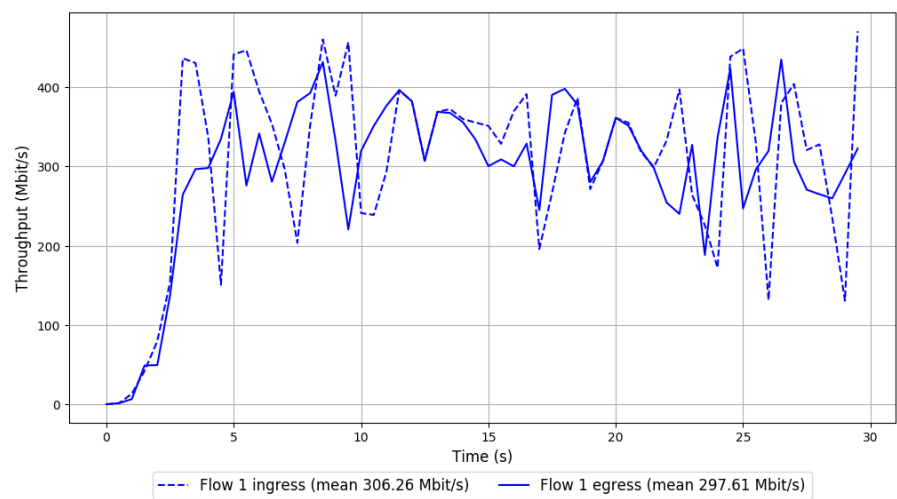
-- Flow 1:

Average throughput: 297.61 Mbit/s

95th percentile per-packet one-way delay: 245.955 ms

Loss rate: 3.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 07:57:08

End at: 2018-01-16 07:57:38

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.15 Mbit/s

95th percentile per-packet one-way delay: 246.136 ms

Loss rate: 1.56%

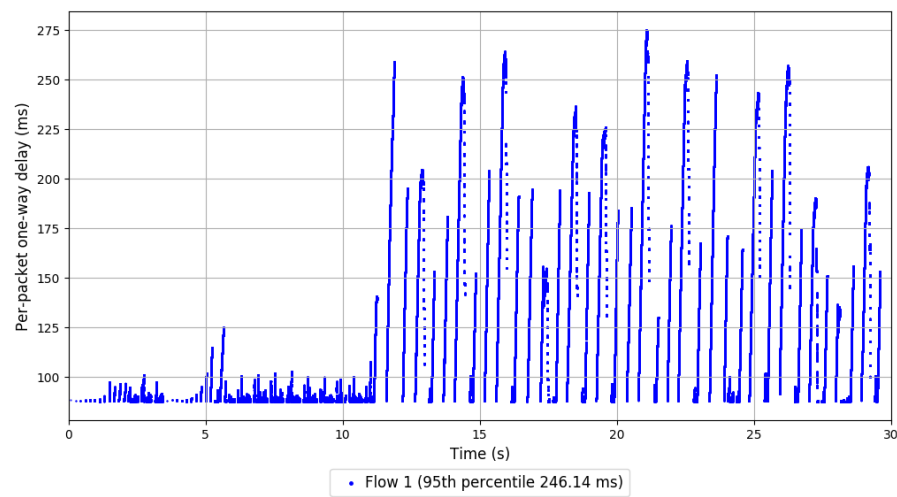
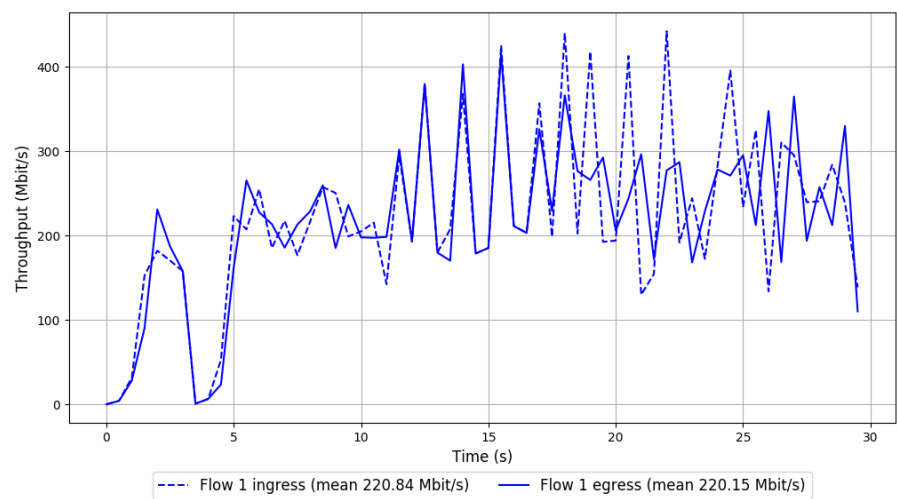
-- Flow 1:

Average throughput: 220.15 Mbit/s

95th percentile per-packet one-way delay: 246.136 ms

Loss rate: 1.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 08:12:06

End at: 2018-01-16 08:12:36

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.85 Mbit/s

95th percentile per-packet one-way delay: 227.972 ms

Loss rate: 4.57%

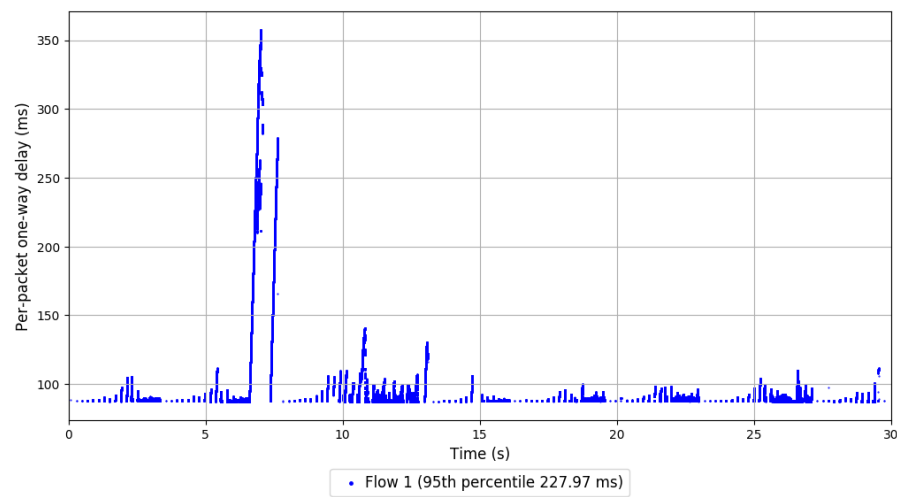
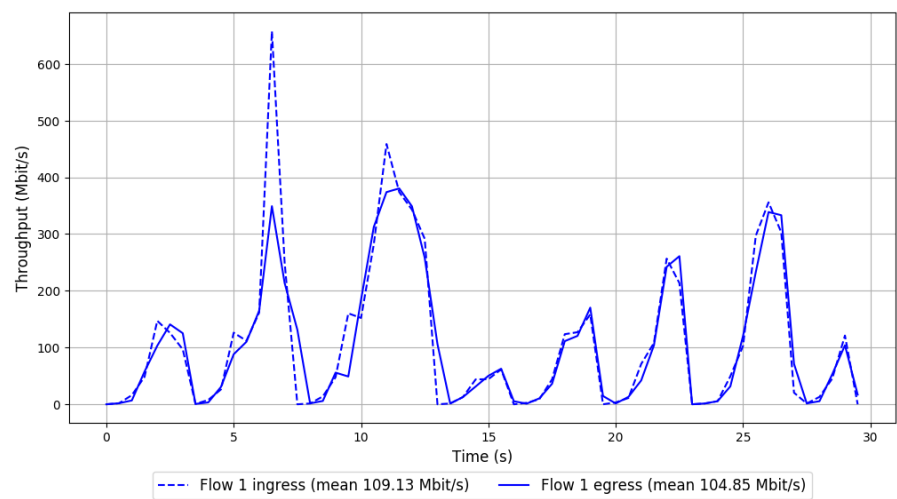
-- Flow 1:

Average throughput: 104.85 Mbit/s

95th percentile per-packet one-way delay: 227.972 ms

Loss rate: 4.57%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 08:26:48

End at: 2018-01-16 08:27:18

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.46 Mbit/s

95th percentile per-packet one-way delay: 142.814 ms

Loss rate: 0.33%

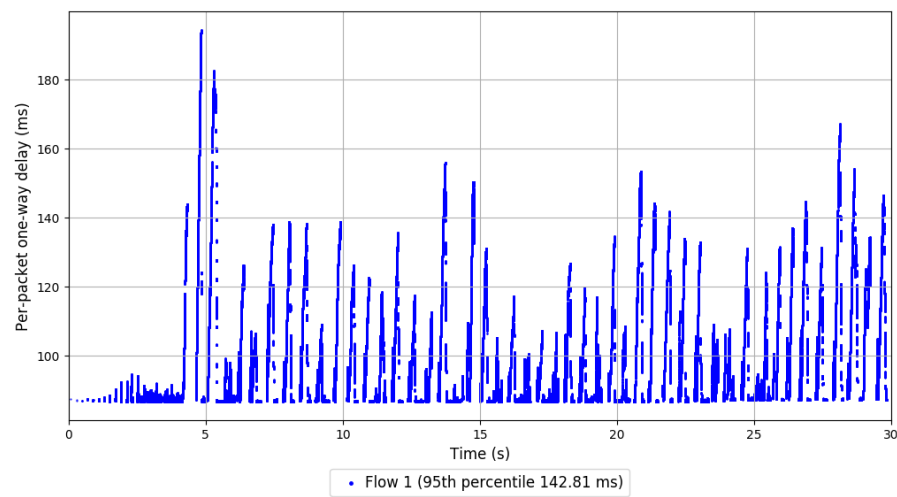
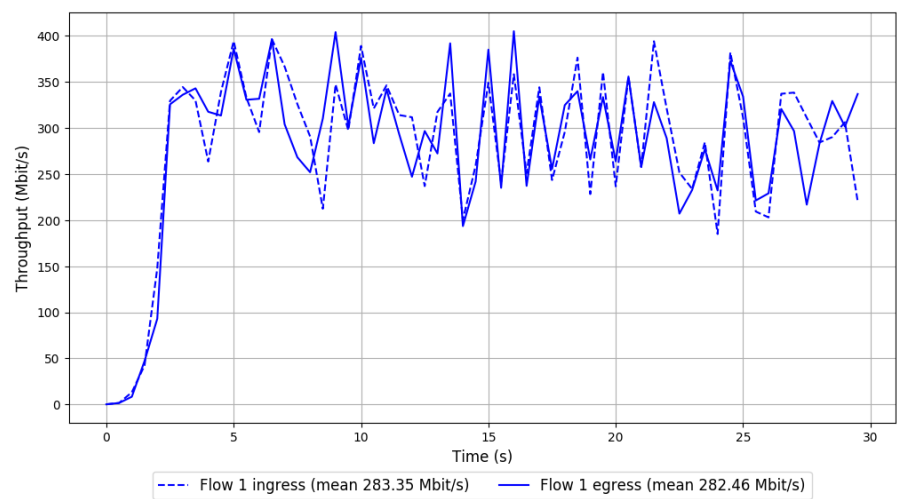
-- Flow 1:

Average throughput: 282.46 Mbit/s

95th percentile per-packet one-way delay: 142.814 ms

Loss rate: 0.33%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 08:41:35

End at: 2018-01-16 08:42:06

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.74 Mbit/s

95th percentile per-packet one-way delay: 118.271 ms

Loss rate: 0.93%

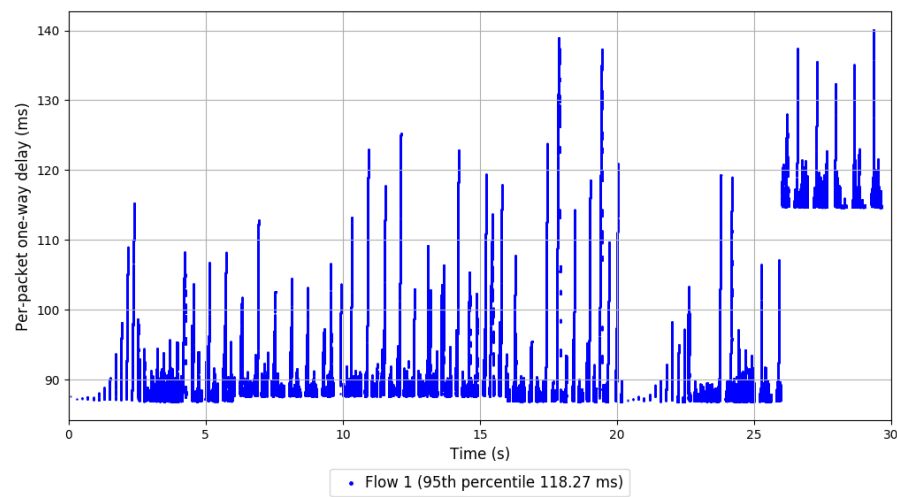
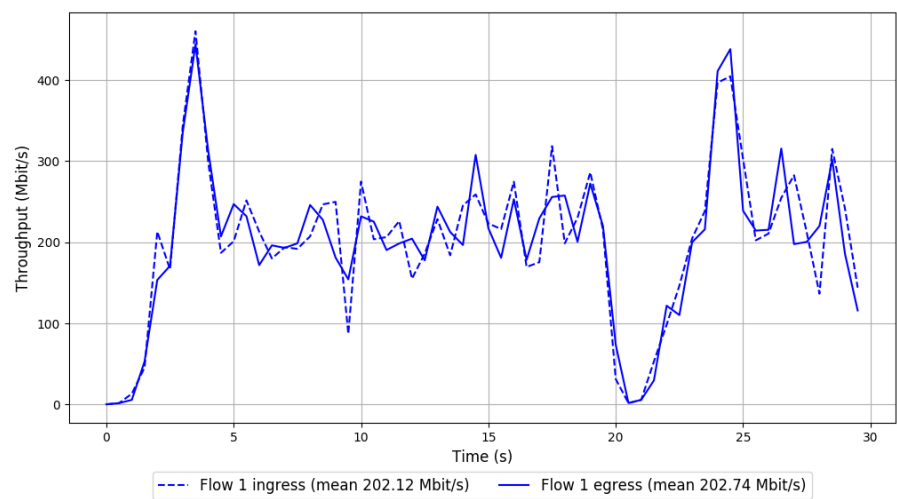
-- Flow 1:

Average throughput: 202.74 Mbit/s

95th percentile per-packet one-way delay: 118.271 ms

Loss rate: 0.93%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 08:56:09

End at: 2018-01-16 08:56:39

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.95 Mbit/s

95th percentile per-packet one-way delay: 133.796 ms

Loss rate: 1.75%

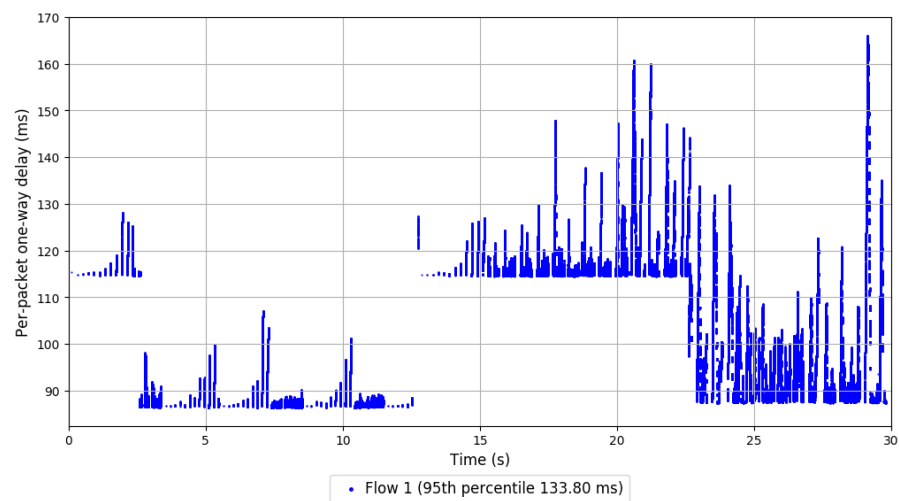
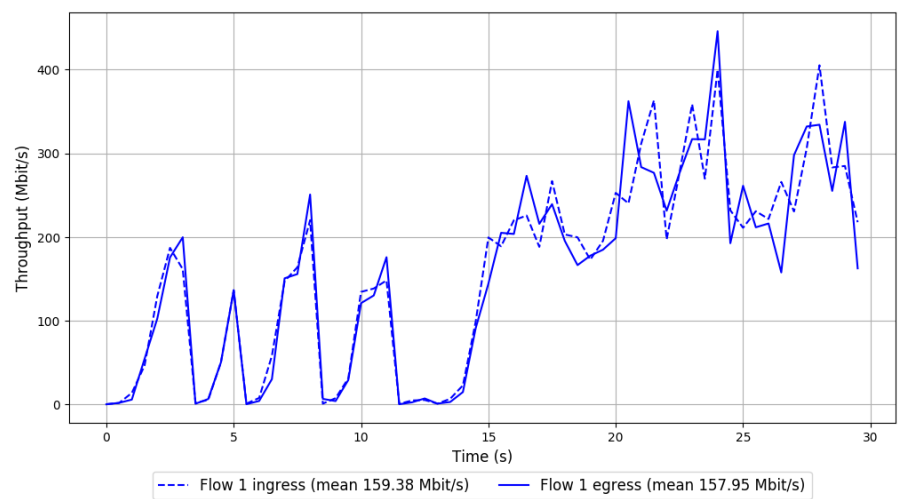
-- Flow 1:

Average throughput: 157.95 Mbit/s

95th percentile per-packet one-way delay: 133.796 ms

Loss rate: 1.75%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 09:10:48

End at: 2018-01-16 09:11:18

Below is generated by plot.py at 2018-01-16 12:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.91 Mbit/s

95th percentile per-packet one-way delay: 250.296 ms

Loss rate: 6.79%

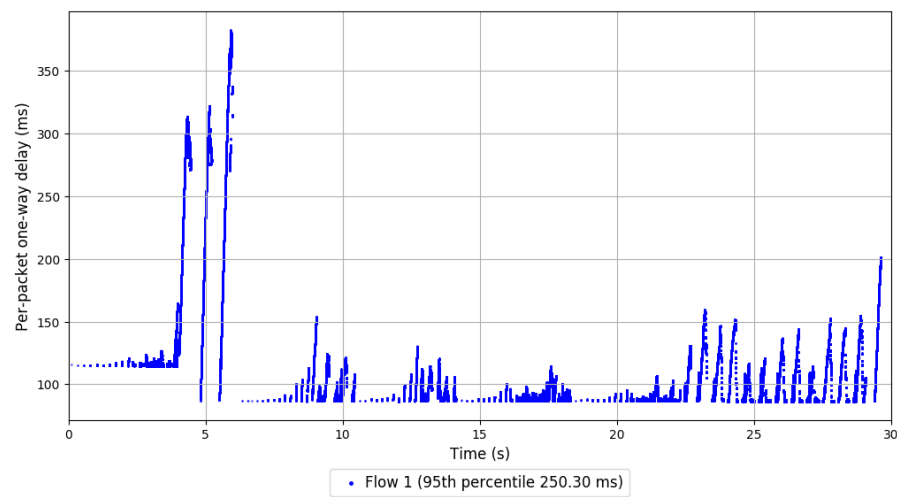
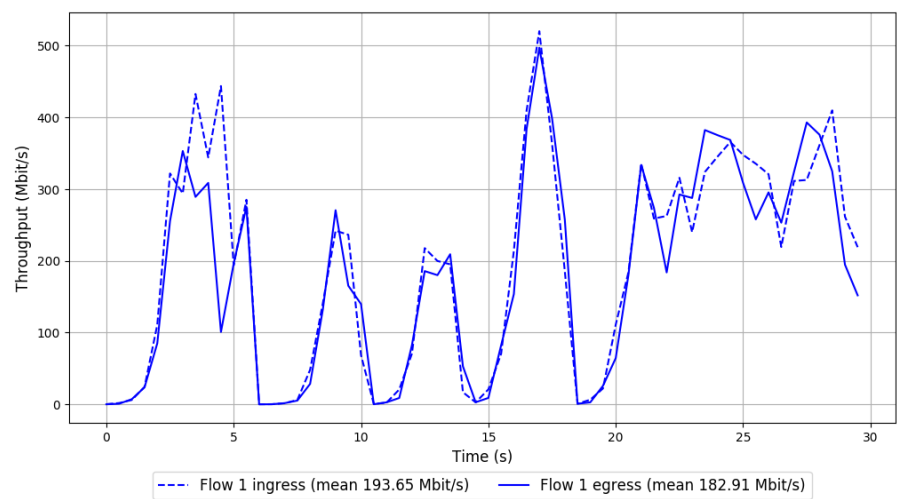
-- Flow 1:

Average throughput: 182.91 Mbit/s

95th percentile per-packet one-way delay: 250.296 ms

Loss rate: 6.79%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 09:25:28

End at: 2018-01-16 09:25:58

Below is generated by plot.py at 2018-01-16 12:48:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.32 Mbit/s

95th percentile per-packet one-way delay: 290.813 ms

Loss rate: 11.65%

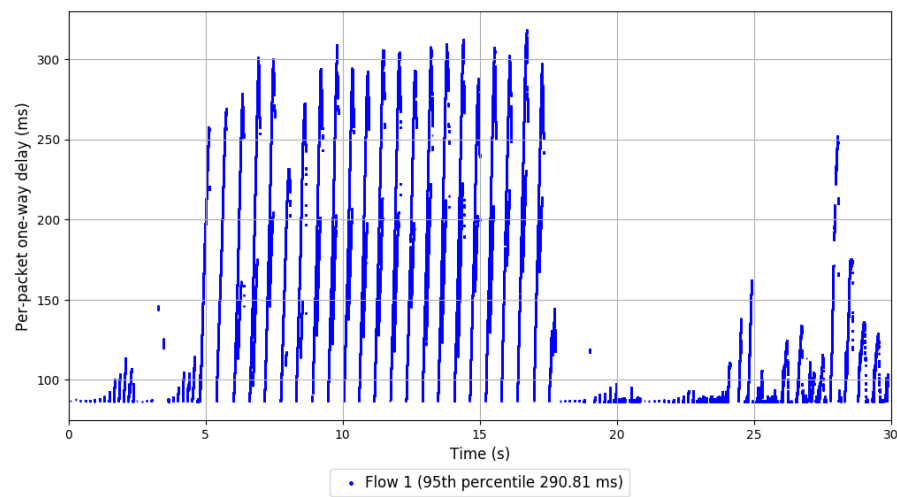
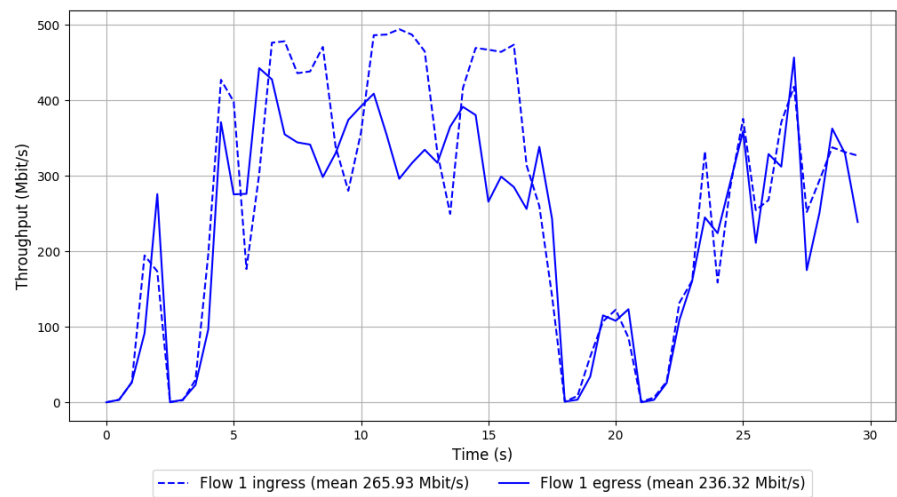
-- Flow 1:

Average throughput: 236.32 Mbit/s

95th percentile per-packet one-way delay: 290.813 ms

Loss rate: 11.65%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 09:39:55

End at: 2018-01-16 09:40:25

Below is generated by plot.py at 2018-01-16 12:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.70 Mbit/s

95th percentile per-packet one-way delay: 123.681 ms

Loss rate: 0.20%

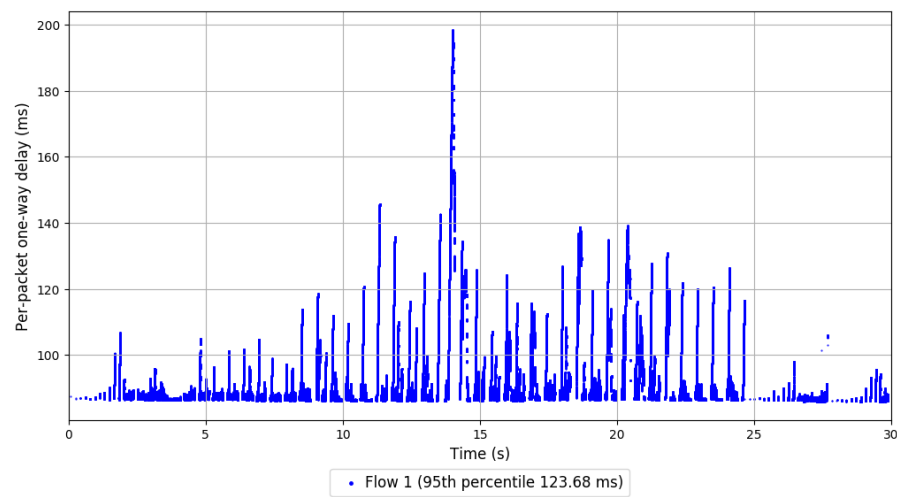
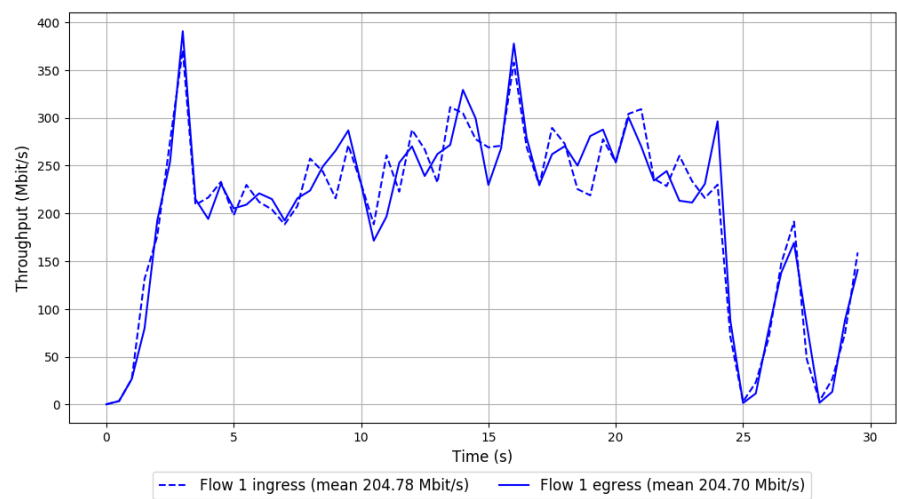
-- Flow 1:

Average throughput: 204.70 Mbit/s

95th percentile per-packet one-way delay: 123.681 ms

Loss rate: 0.20%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-16 07:35:16

End at: 2018-01-16 07:35:46

Below is generated by plot.py at 2018-01-16 12:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 87.928 ms

Loss rate: 0.81%

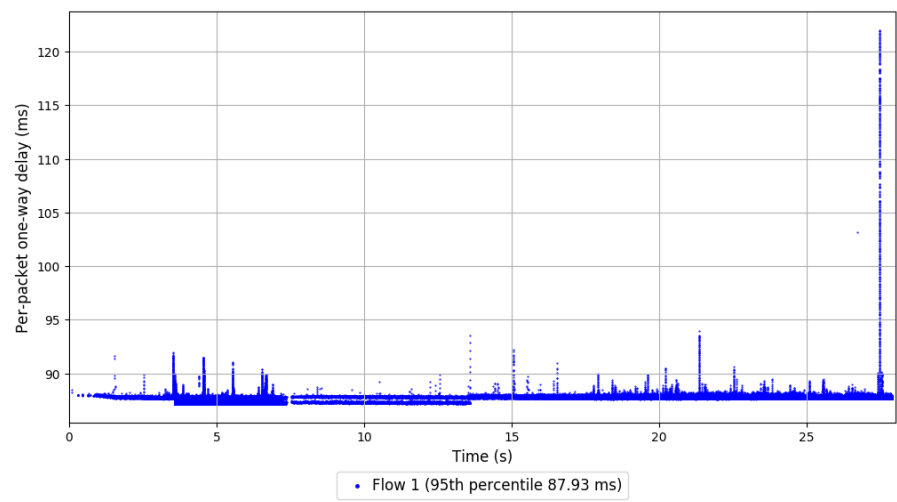
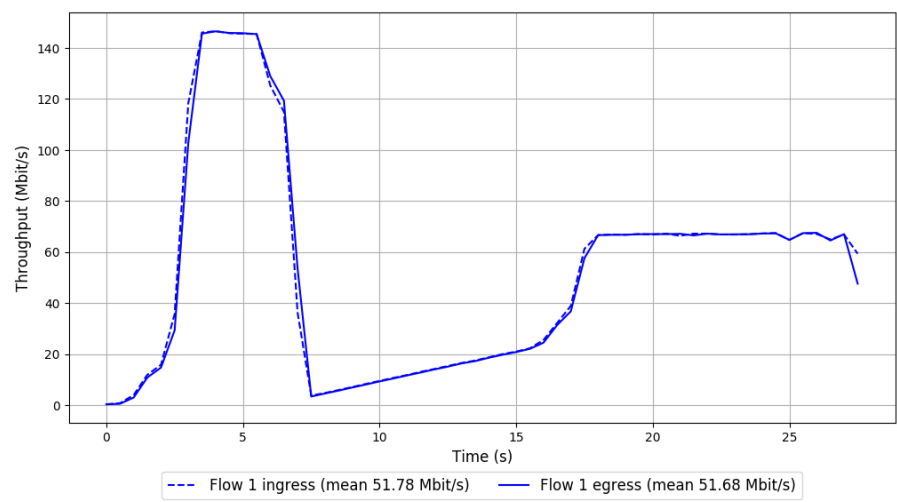
-- Flow 1:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 87.928 ms

Loss rate: 0.81%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 07:50:38

End at: 2018-01-16 07:51:08

Below is generated by plot.py at 2018-01-16 12:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 88.059 ms

Loss rate: 1.10%

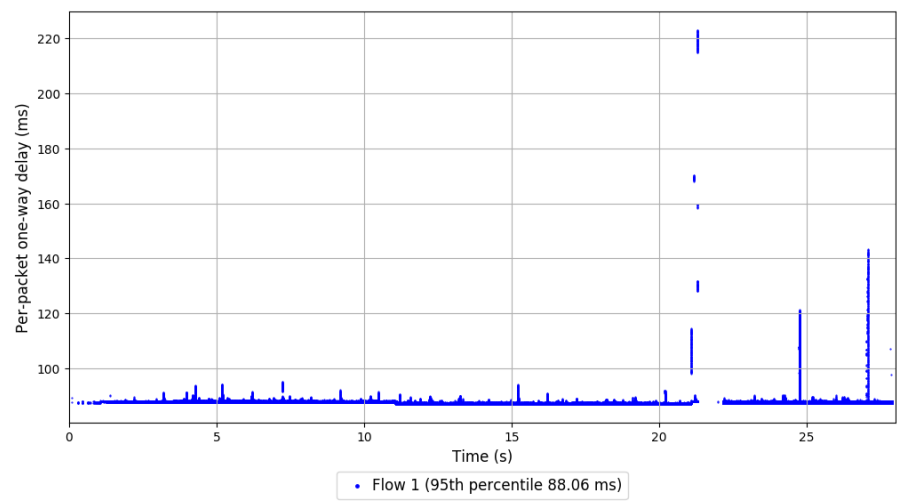
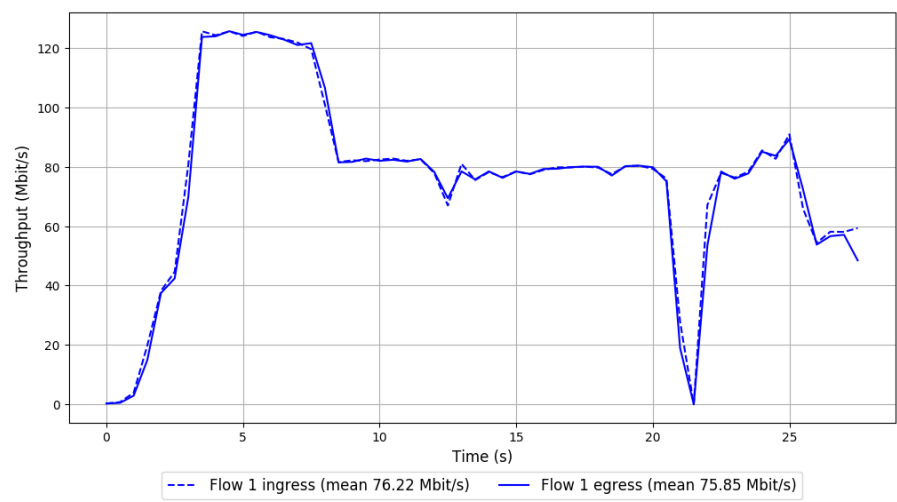
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 88.059 ms

Loss rate: 1.10%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 08:05:40

End at: 2018-01-16 08:06:10

Below is generated by plot.py at 2018-01-16 12:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 87.979 ms

Loss rate: 0.61%

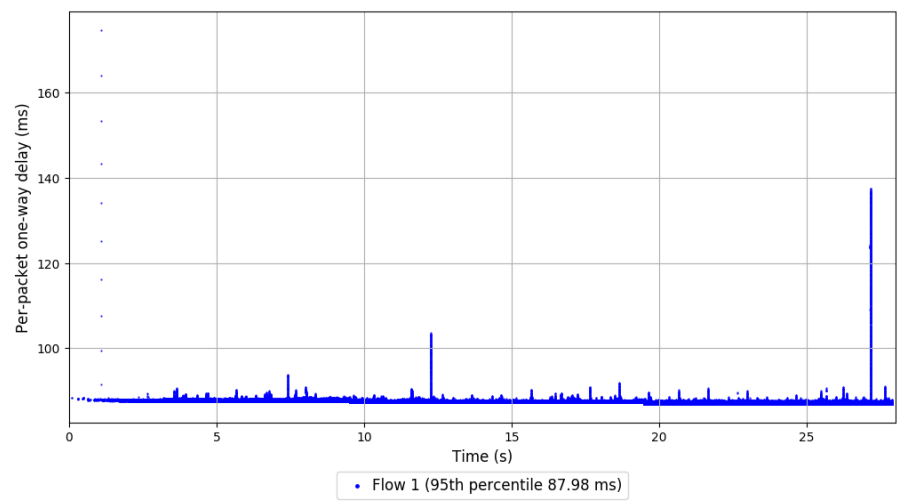
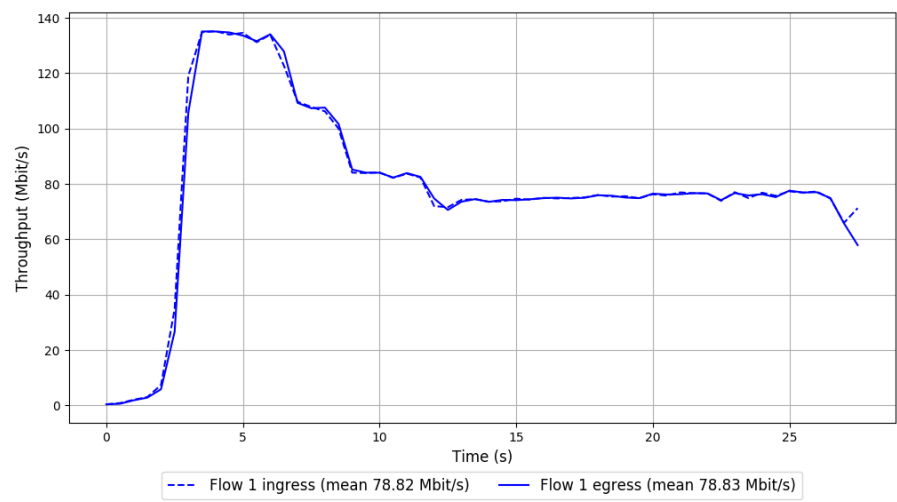
-- Flow 1:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 87.979 ms

Loss rate: 0.61%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 08:20:29

End at: 2018-01-16 08:20:59

Below is generated by plot.py at 2018-01-16 12:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.72 Mbit/s

95th percentile per-packet one-way delay: 87.348 ms

Loss rate: 0.76%

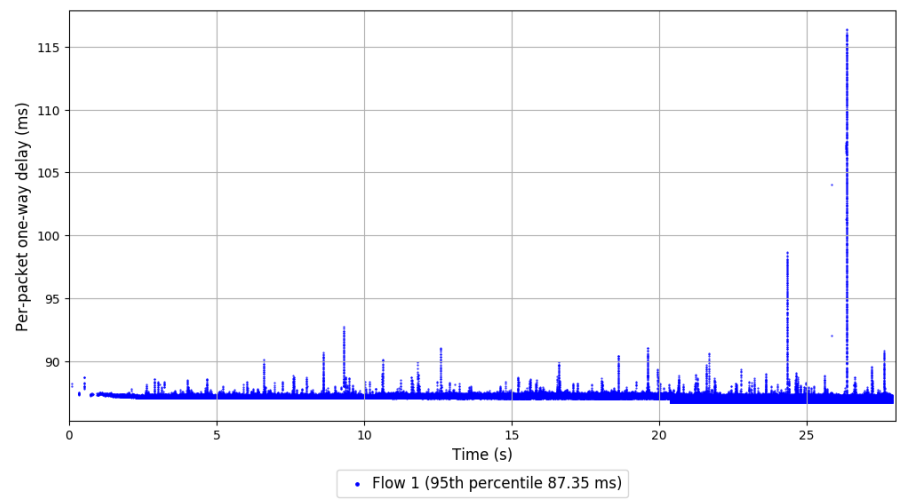
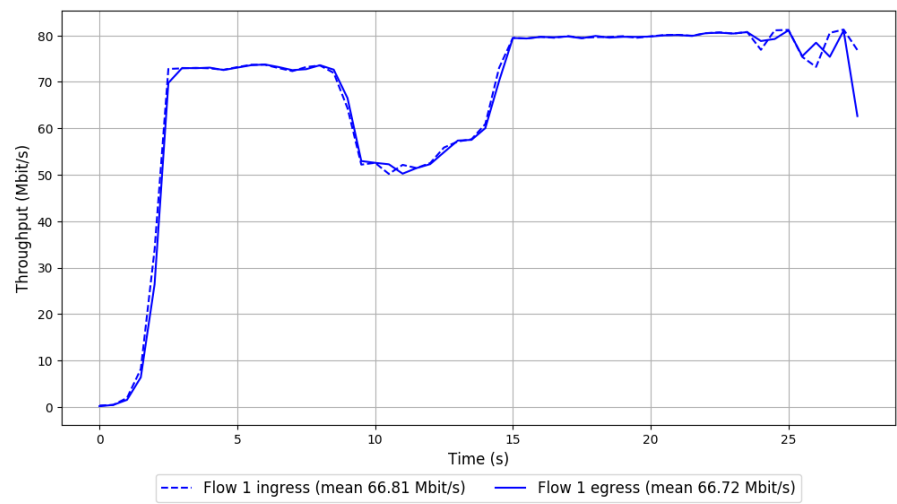
-- Flow 1:

Average throughput: 66.72 Mbit/s

95th percentile per-packet one-way delay: 87.348 ms

Loss rate: 0.76%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 08:35:24

End at: 2018-01-16 08:35:54

Below is generated by plot.py at 2018-01-16 12:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 87.654 ms

Loss rate: 0.79%

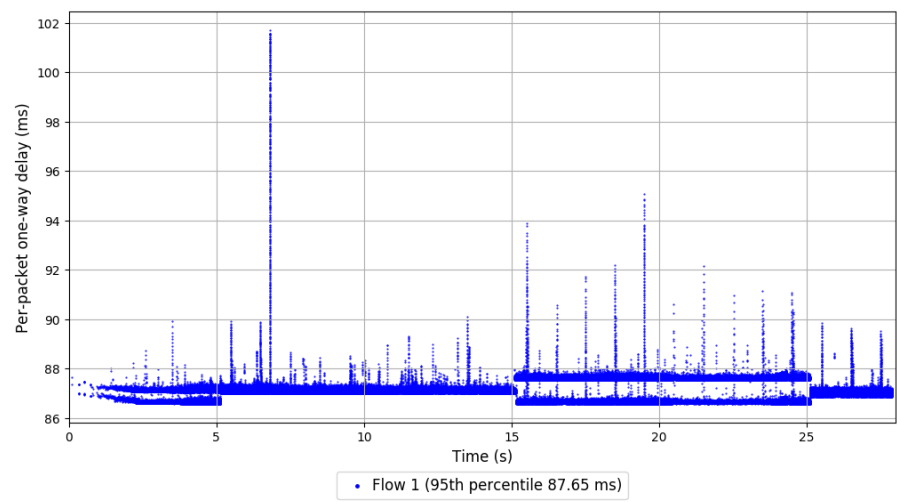
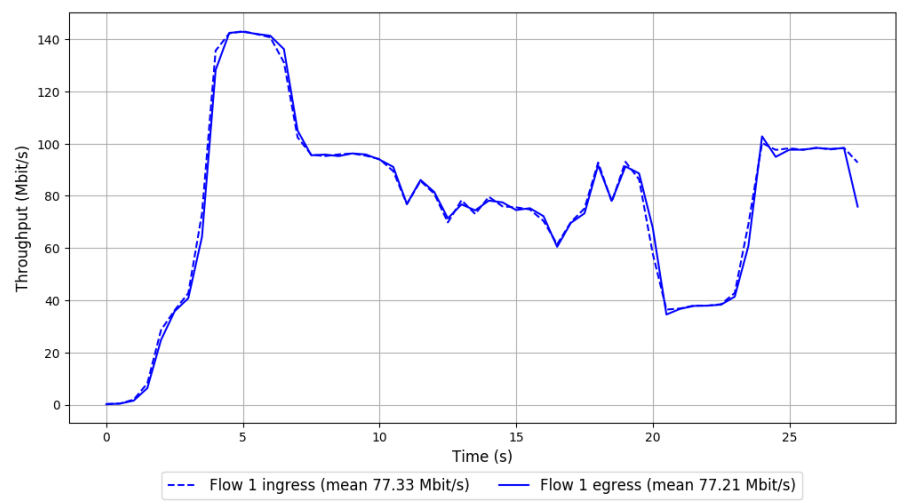
-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 87.654 ms

Loss rate: 0.79%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 08:50:07

End at: 2018-01-16 08:50:37

Below is generated by plot.py at 2018-01-16 12:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 114.945 ms

Loss rate: 0.71%

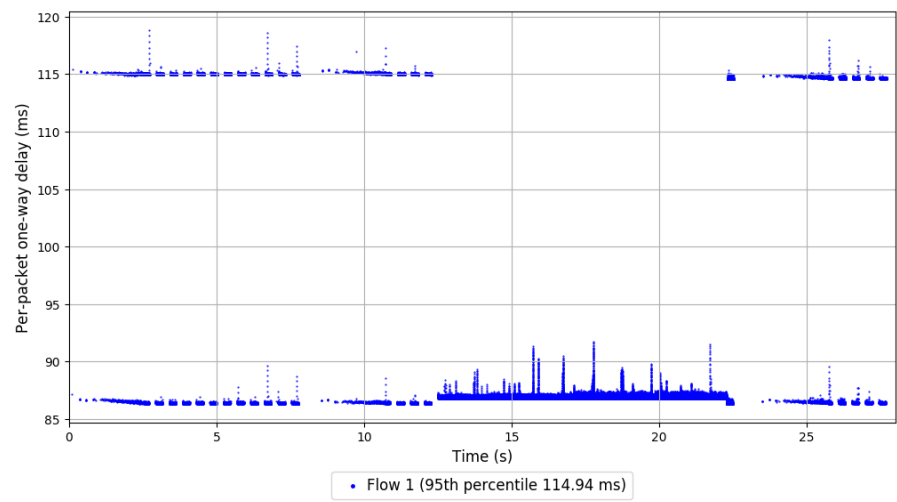
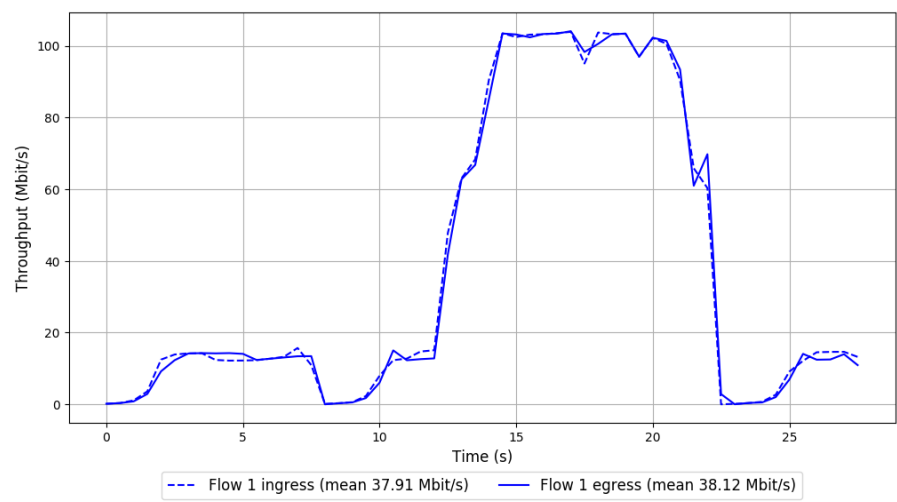
-- Flow 1:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 114.945 ms

Loss rate: 0.71%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 09:04:27

End at: 2018-01-16 09:04:57

Below is generated by plot.py at 2018-01-16 12:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 114.818 ms

Loss rate: 0.00%

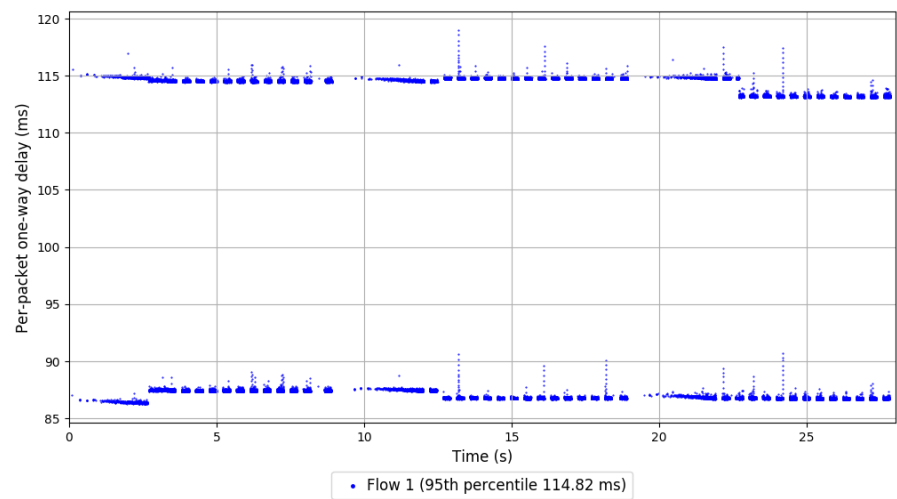
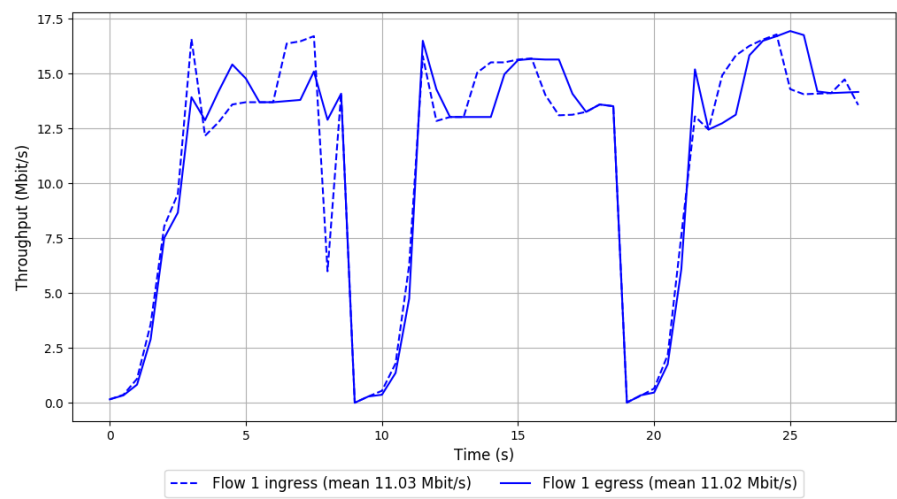
-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 114.818 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 09:19:29

End at: 2018-01-16 09:19:59

Below is generated by plot.py at 2018-01-16 12:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 112.573 ms

Loss rate: 2.57%

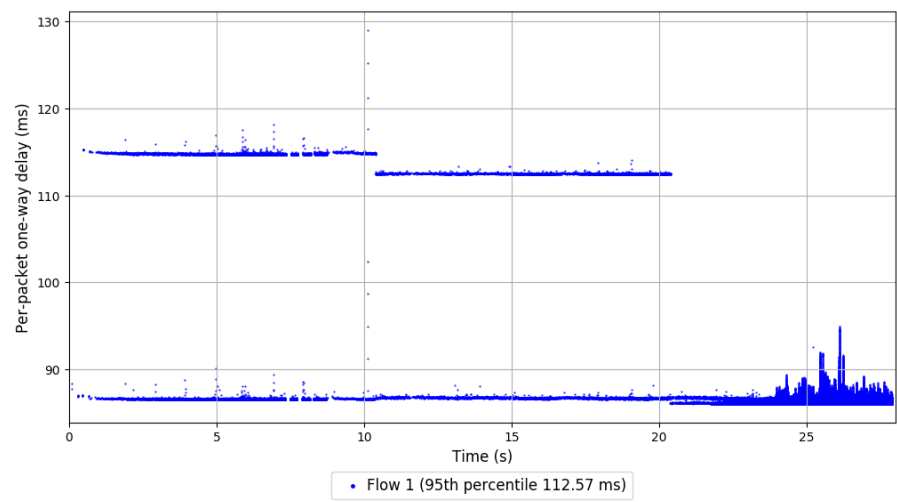
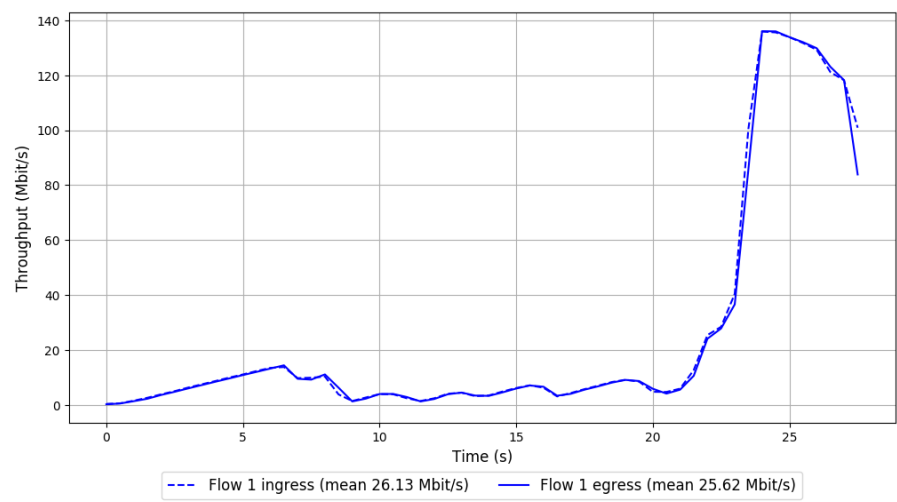
-- Flow 1:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 112.573 ms

Loss rate: 2.57%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 09:34:03

End at: 2018-01-16 09:34:33

Below is generated by plot.py at 2018-01-16 12:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 1.65%

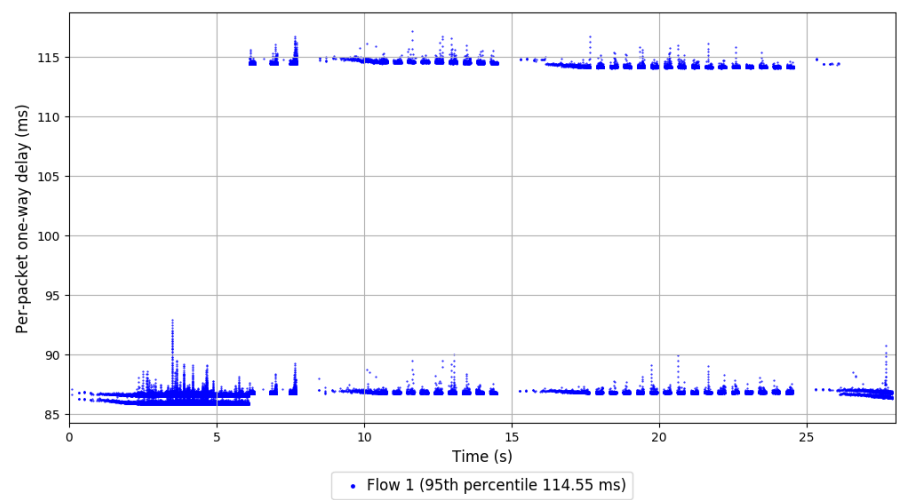
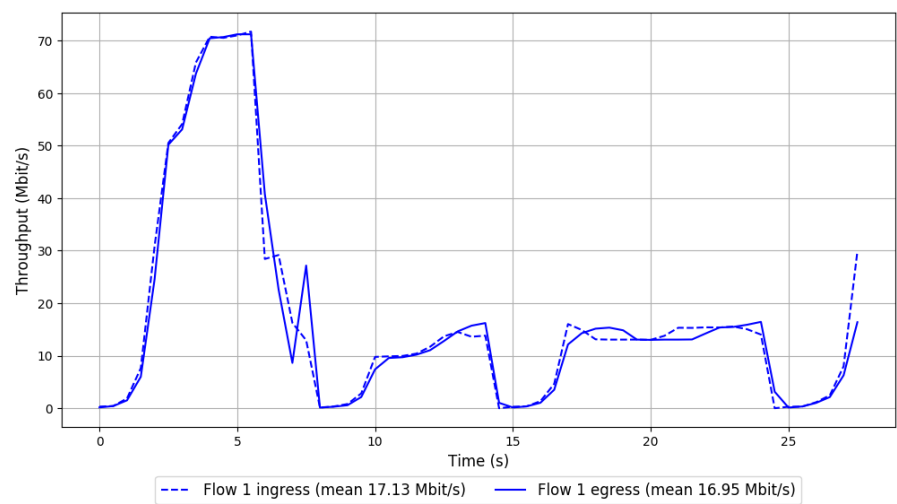
-- Flow 1:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 1.65%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 09:48:50

End at: 2018-01-16 09:49:20

Below is generated by plot.py at 2018-01-16 12:50:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 86.623 ms

Loss rate: 0.84%

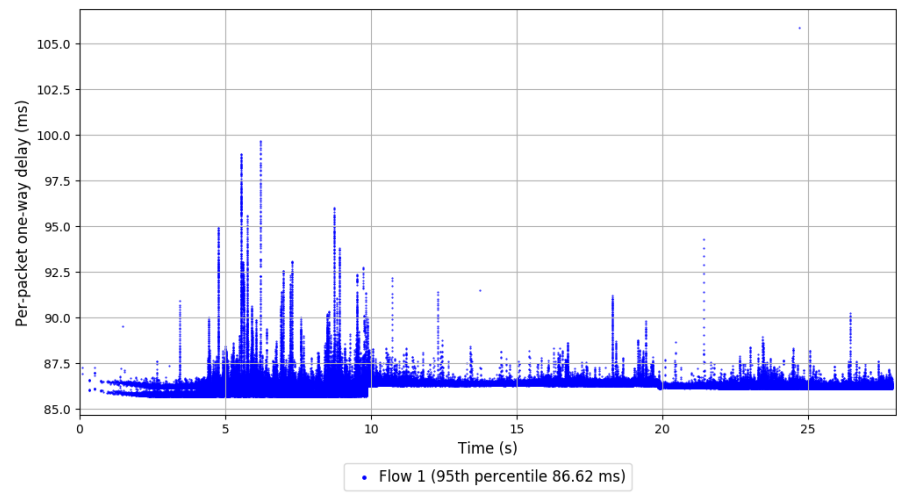
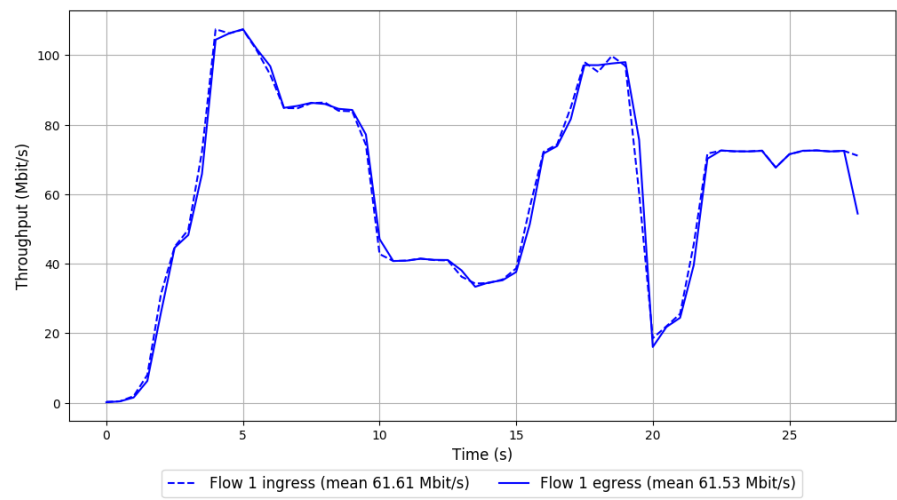
-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 86.623 ms

Loss rate: 0.84%

Run 10: Report of Copa — Data Link

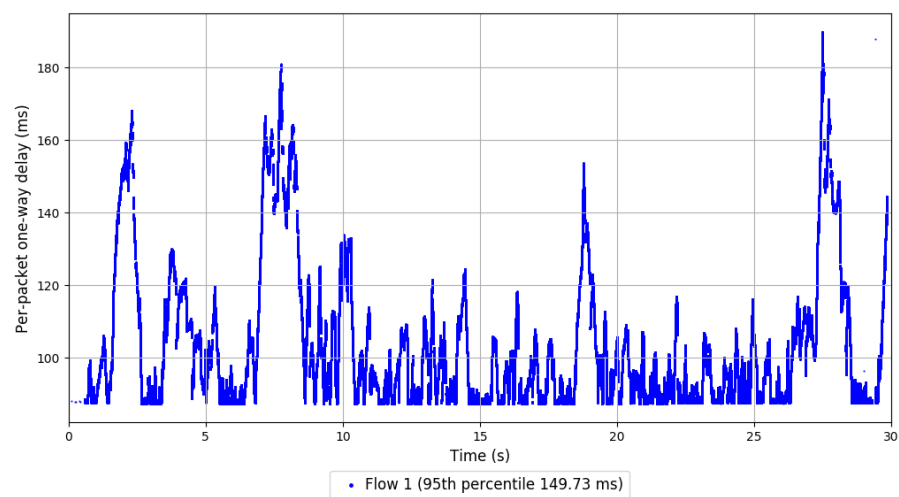
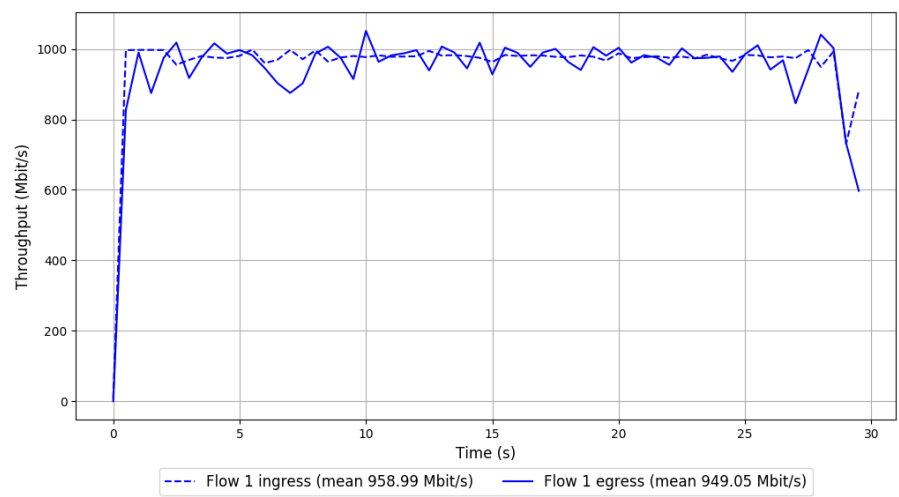


```
Run 1: Statistics of FillP

Start at: 2018-01-16 07:31:29
End at: 2018-01-16 07:32:00

# Below is generated by plot.py at 2018-01-16 13:06:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 949.05 Mbit/s
95th percentile per-packet one-way delay: 149.728 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 949.05 Mbit/s
95th percentile per-packet one-way delay: 149.728 ms
Loss rate: 1.61%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 07:46:51

End at: 2018-01-16 07:47:21

Below is generated by plot.py at 2018-01-16 13:06:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.12 Mbit/s

95th percentile per-packet one-way delay: 290.742 ms

Loss rate: 3.15%

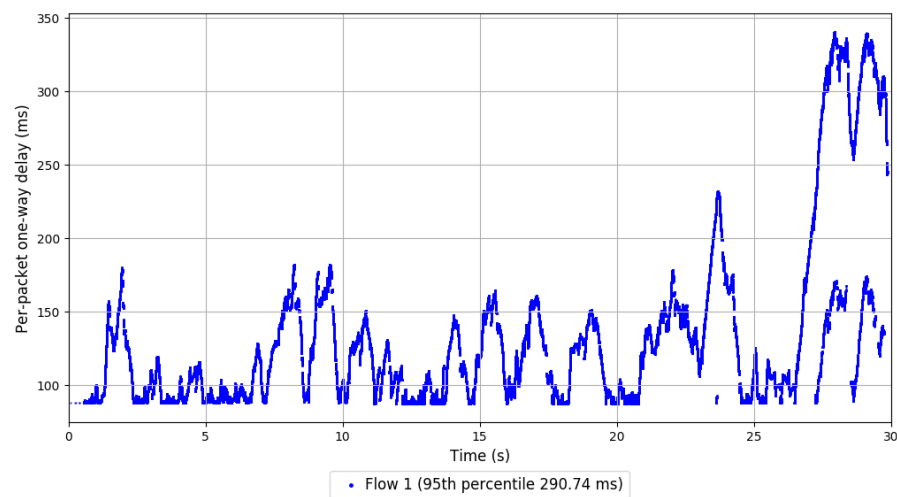
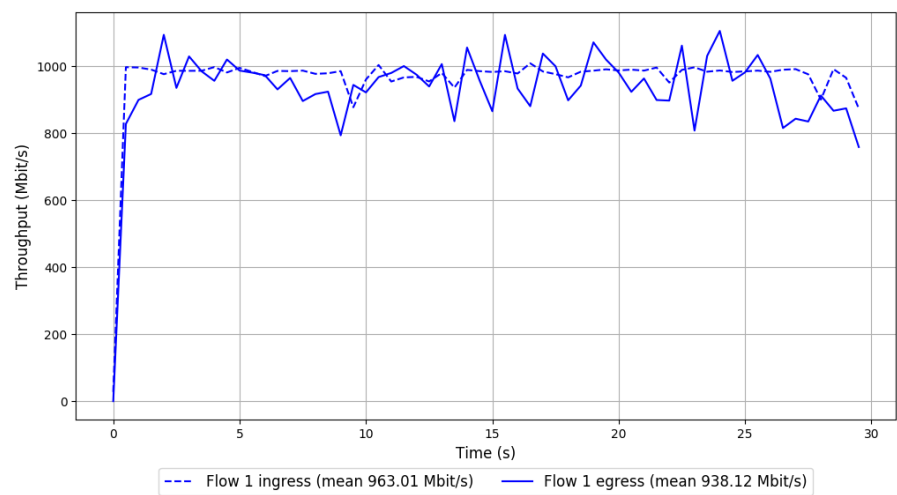
-- Flow 1:

Average throughput: 938.12 Mbit/s

95th percentile per-packet one-way delay: 290.742 ms

Loss rate: 3.15%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 08:02:25

End at: 2018-01-16 08:02:55

Below is generated by plot.py at 2018-01-16 13:06:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.68 Mbit/s

95th percentile per-packet one-way delay: 186.127 ms

Loss rate: 1.11%

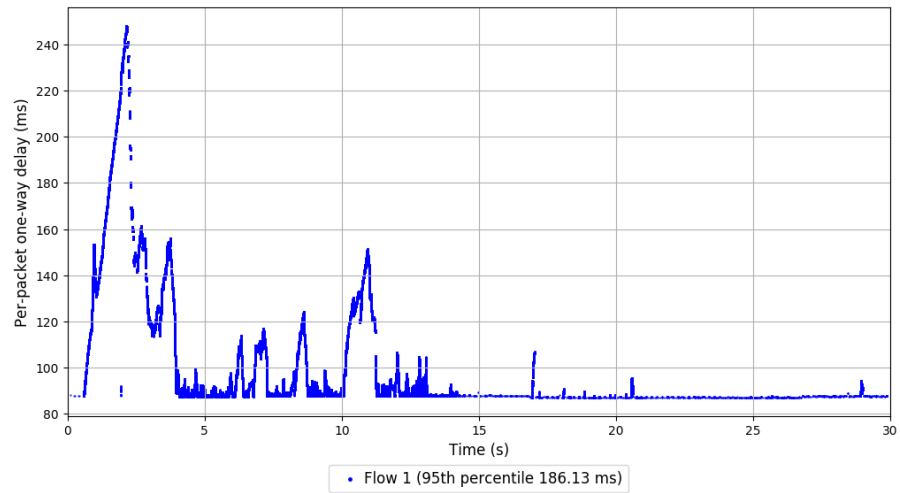
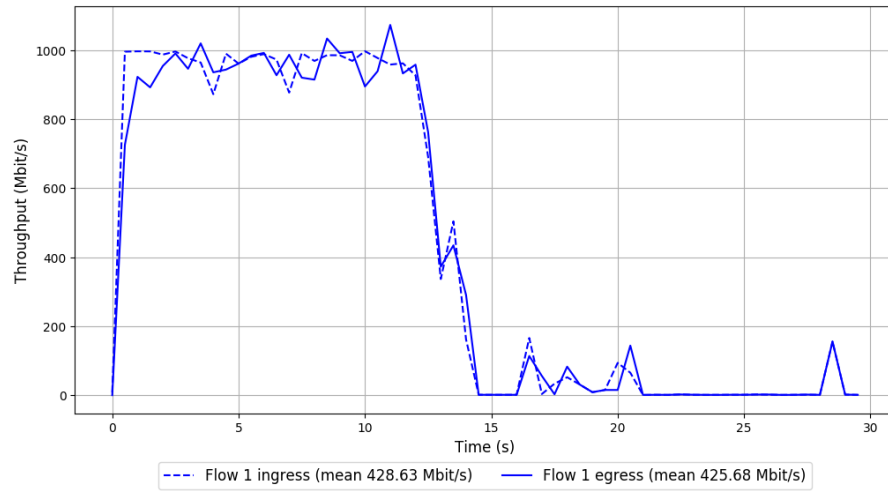
-- Flow 1:

Average throughput: 425.68 Mbit/s

95th percentile per-packet one-way delay: 186.127 ms

Loss rate: 1.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 08:16:49

End at: 2018-01-16 08:17:19

Below is generated by plot.py at 2018-01-16 13:06:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.89 Mbit/s

95th percentile per-packet one-way delay: 160.881 ms

Loss rate: 3.18%

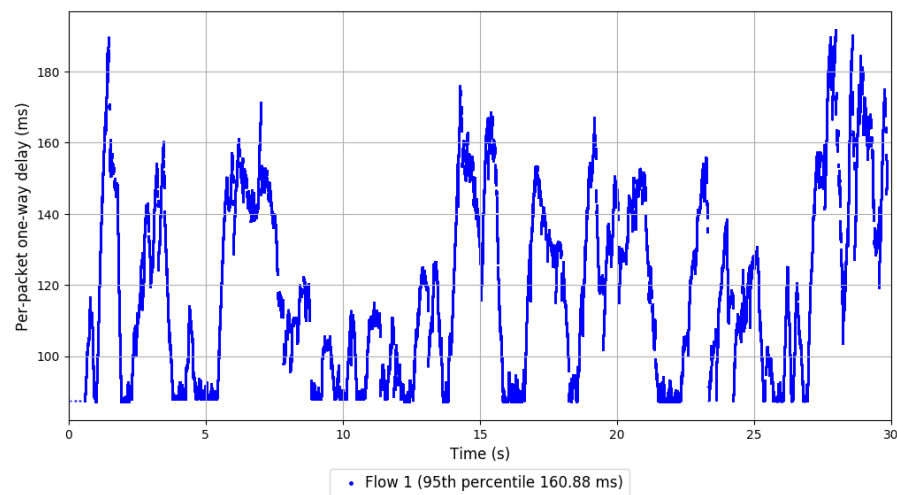
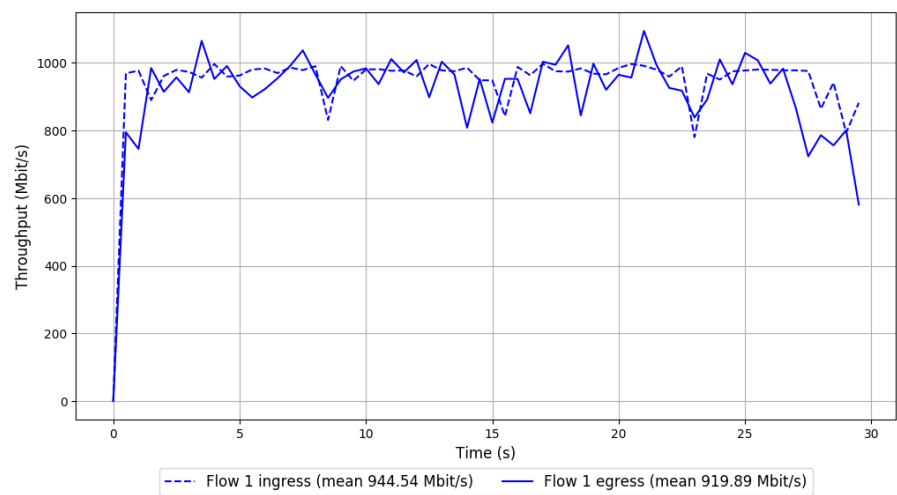
-- Flow 1:

Average throughput: 919.89 Mbit/s

95th percentile per-packet one-way delay: 160.881 ms

Loss rate: 3.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 08:31:47

End at: 2018-01-16 08:32:17

Below is generated by plot.py at 2018-01-16 13:07:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.37 Mbit/s

95th percentile per-packet one-way delay: 132.995 ms

Loss rate: 0.73%

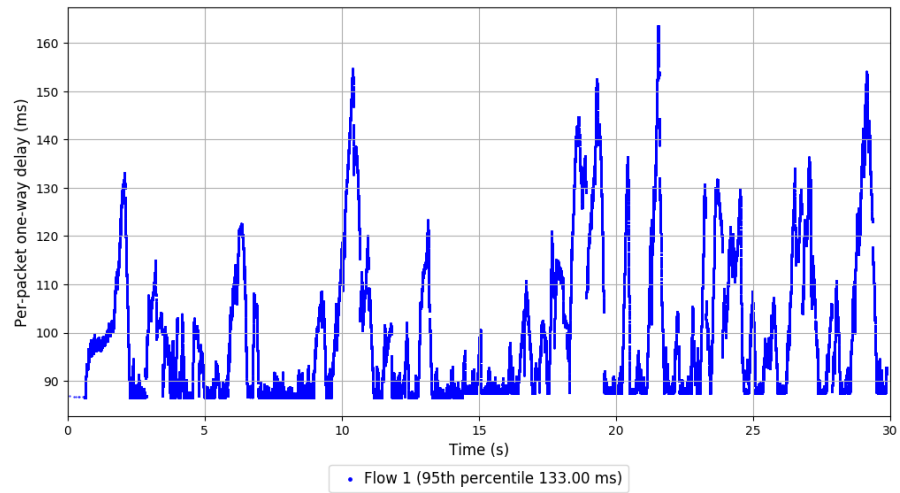
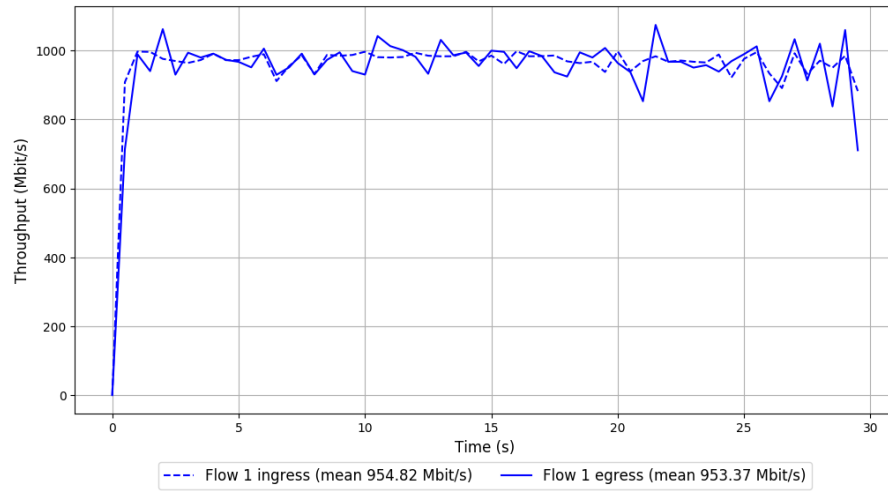
-- Flow 1:

Average throughput: 953.37 Mbit/s

95th percentile per-packet one-way delay: 132.995 ms

Loss rate: 0.73%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 08:46:37

End at: 2018-01-16 08:47:07

Below is generated by plot.py at 2018-01-16 13:07:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.33 Mbit/s

95th percentile per-packet one-way delay: 165.350 ms

Loss rate: 2.59%

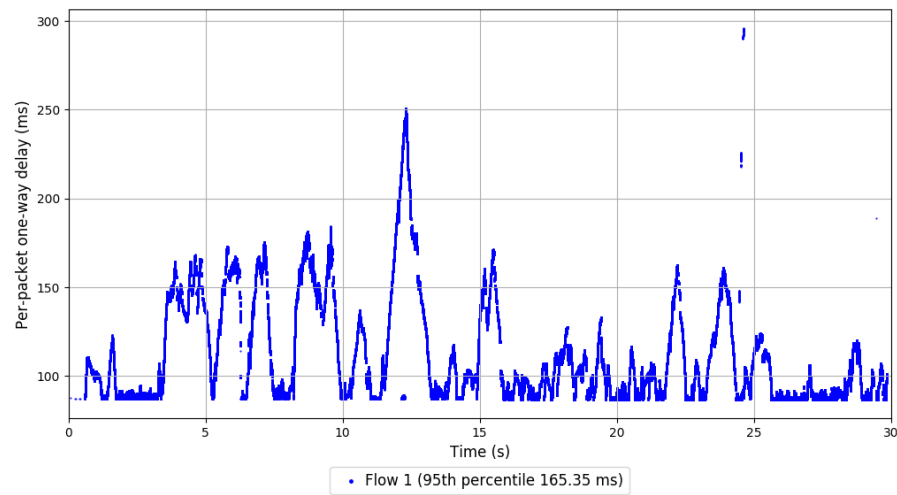
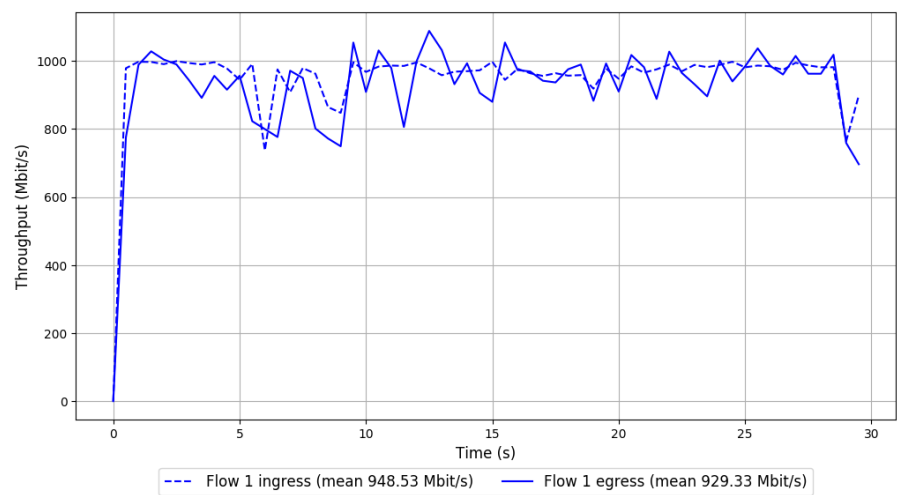
-- Flow 1:

Average throughput: 929.33 Mbit/s

95th percentile per-packet one-way delay: 165.350 ms

Loss rate: 2.59%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 09:00:36

End at: 2018-01-16 09:01:06

Below is generated by plot.py at 2018-01-16 13:07:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.66 Mbit/s

95th percentile per-packet one-way delay: 316.526 ms

Loss rate: 3.76%

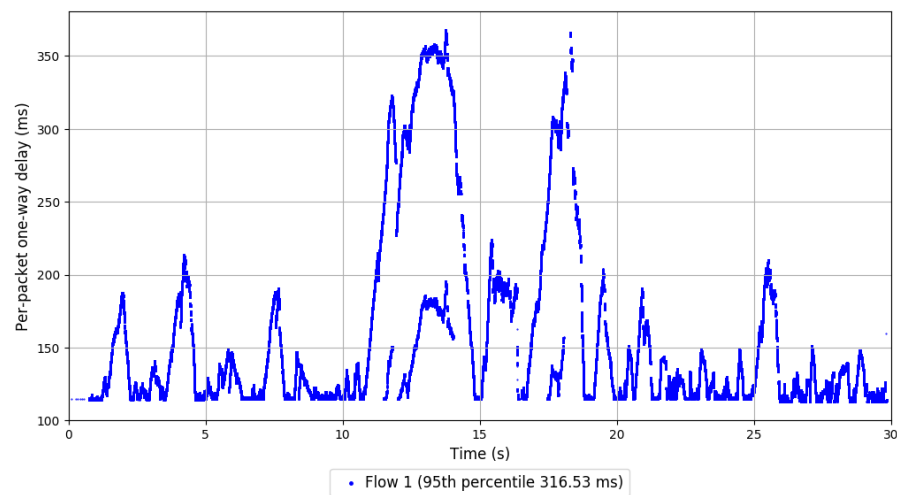
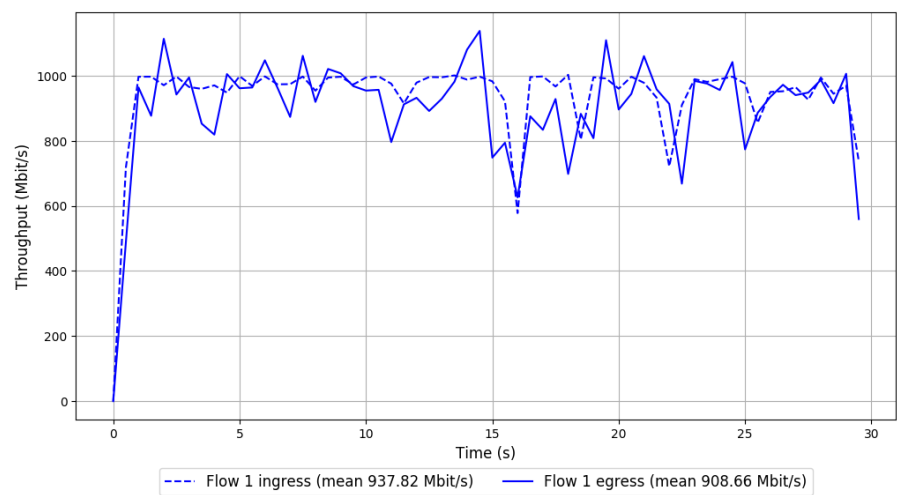
-- Flow 1:

Average throughput: 908.66 Mbit/s

95th percentile per-packet one-way delay: 316.526 ms

Loss rate: 3.76%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 09:15:53

End at: 2018-01-16 09:16:24

Below is generated by plot.py at 2018-01-16 13:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.69 Mbit/s

95th percentile per-packet one-way delay: 148.718 ms

Loss rate: 1.35%

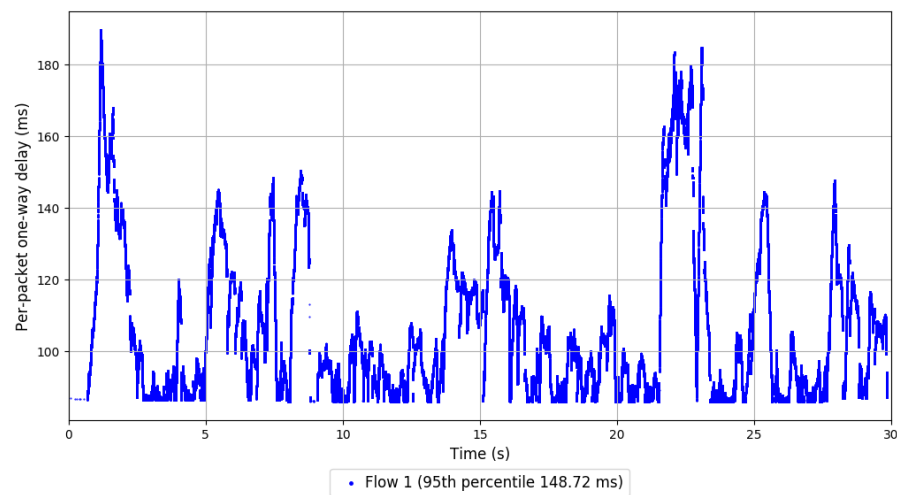
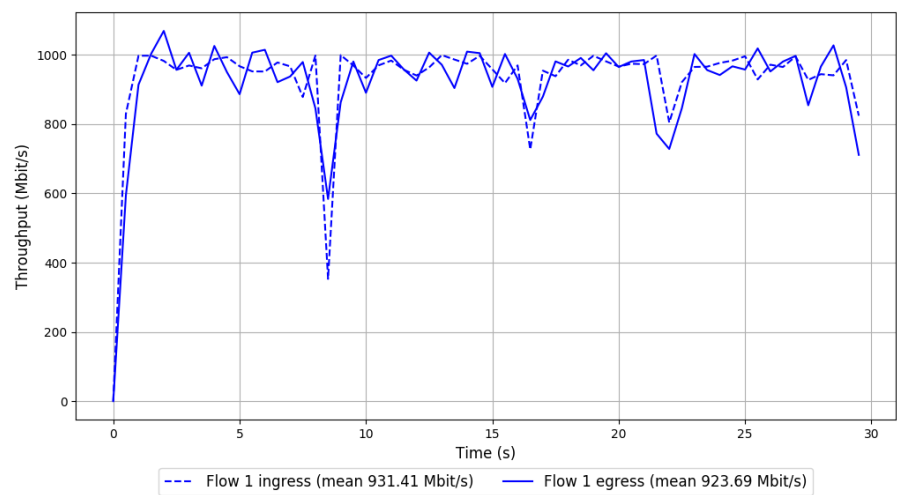
-- Flow 1:

Average throughput: 923.69 Mbit/s

95th percentile per-packet one-way delay: 148.718 ms

Loss rate: 1.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 09:30:29

End at: 2018-01-16 09:30:59

Below is generated by plot.py at 2018-01-16 13:17:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 910.79 Mbit/s

95th percentile per-packet one-way delay: 189.146 ms

Loss rate: 2.72%

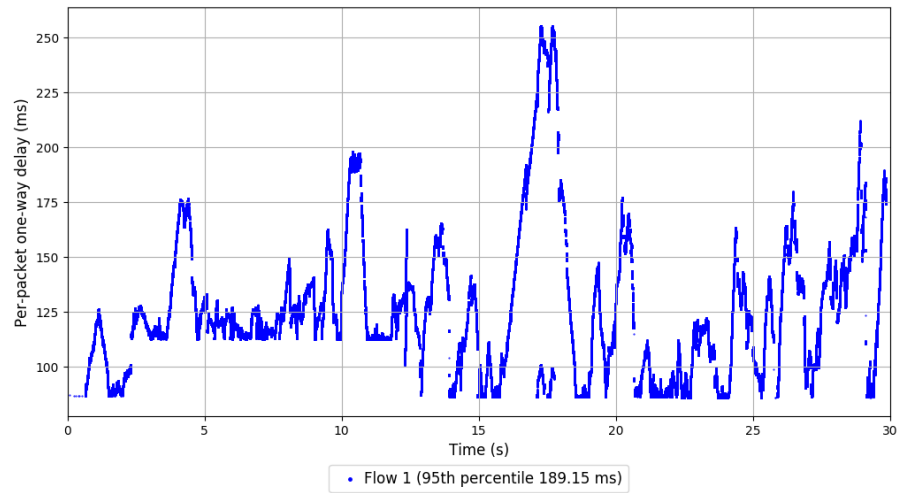
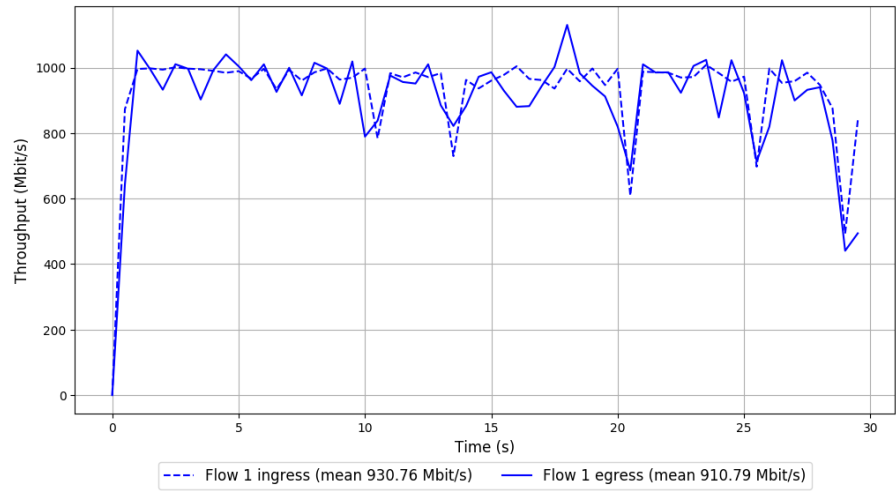
-- Flow 1:

Average throughput: 910.79 Mbit/s

95th percentile per-packet one-way delay: 189.146 ms

Loss rate: 2.72%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 09:45:10

End at: 2018-01-16 09:45:40

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 891.30 Mbit/s

95th percentile per-packet one-way delay: 157.158 ms

Loss rate: 2.00%

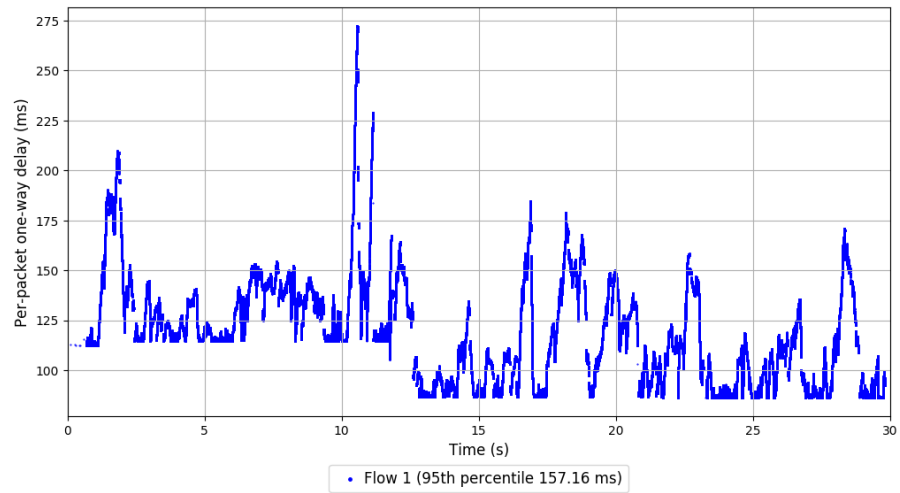
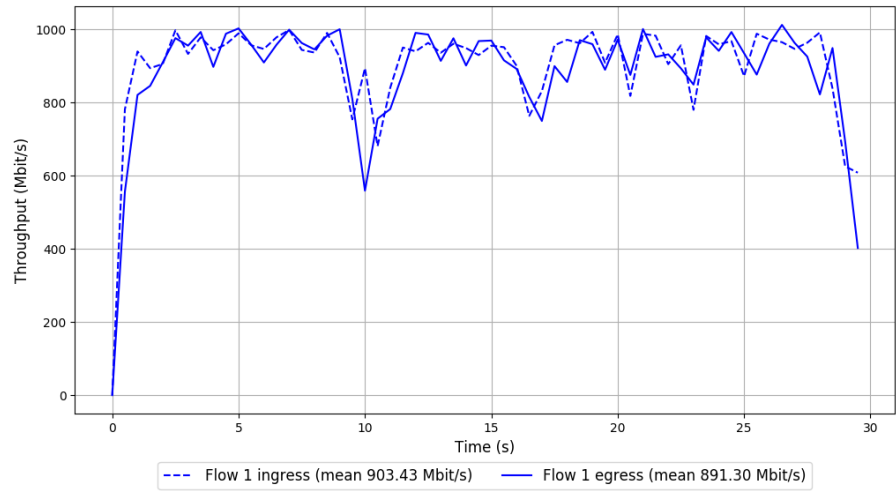
-- Flow 1:

Average throughput: 891.30 Mbit/s

95th percentile per-packet one-way delay: 157.158 ms

Loss rate: 2.00%

Run 10: Report of FillP — Data Link

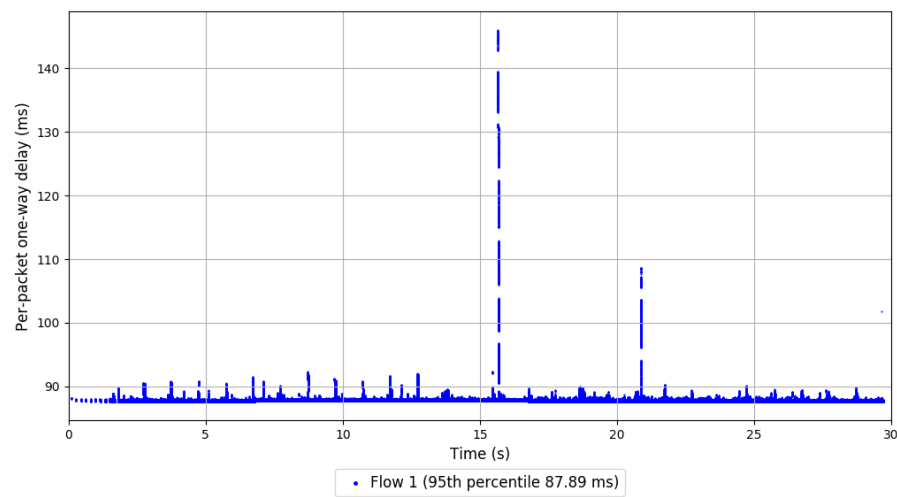
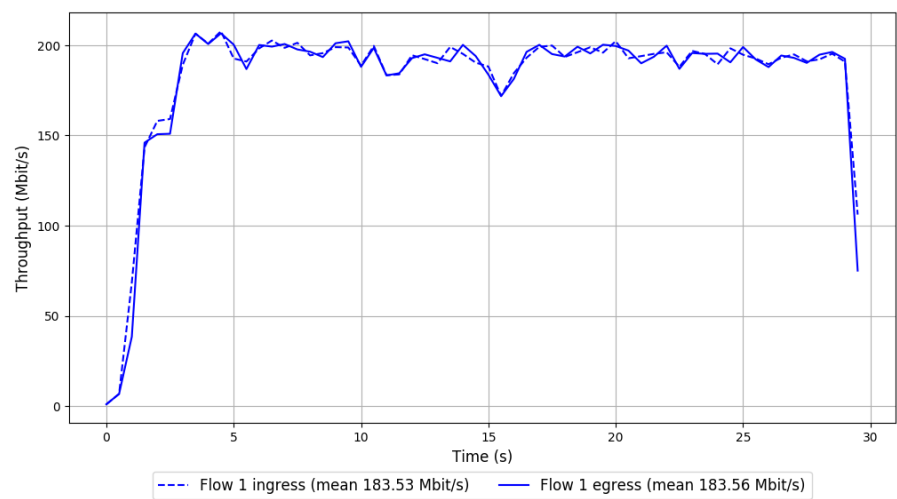


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 07:38:25
End at: 2018-01-16 07:38:55

# Below is generated by plot.py at 2018-01-16 13:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.56 Mbit/s
95th percentile per-packet one-way delay: 87.895 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 183.56 Mbit/s
95th percentile per-packet one-way delay: 87.895 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 07:53:50

End at: 2018-01-16 07:54:21

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.40 Mbit/s

95th percentile per-packet one-way delay: 87.615 ms

Loss rate: 0.61%

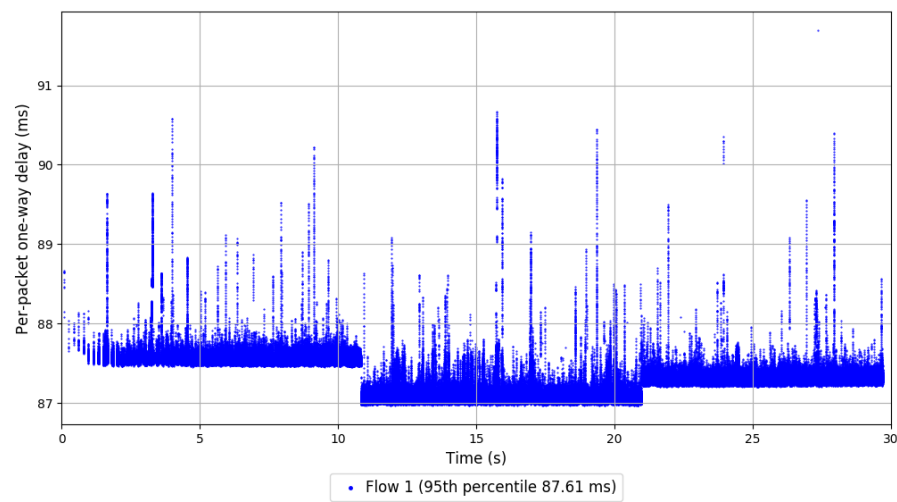
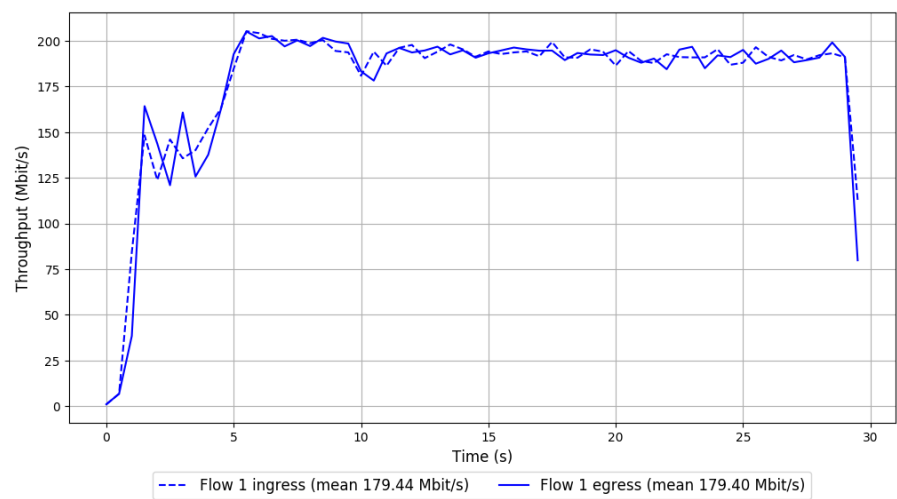
-- Flow 1:

Average throughput: 179.40 Mbit/s

95th percentile per-packet one-way delay: 87.615 ms

Loss rate: 0.61%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 08:08:51

End at: 2018-01-16 08:09:21

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.48 Mbit/s

95th percentile per-packet one-way delay: 87.694 ms

Loss rate: 0.93%

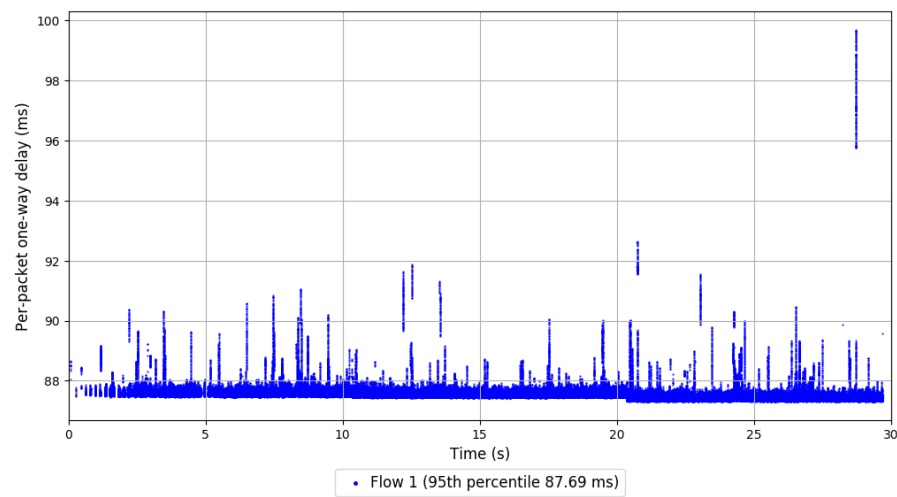
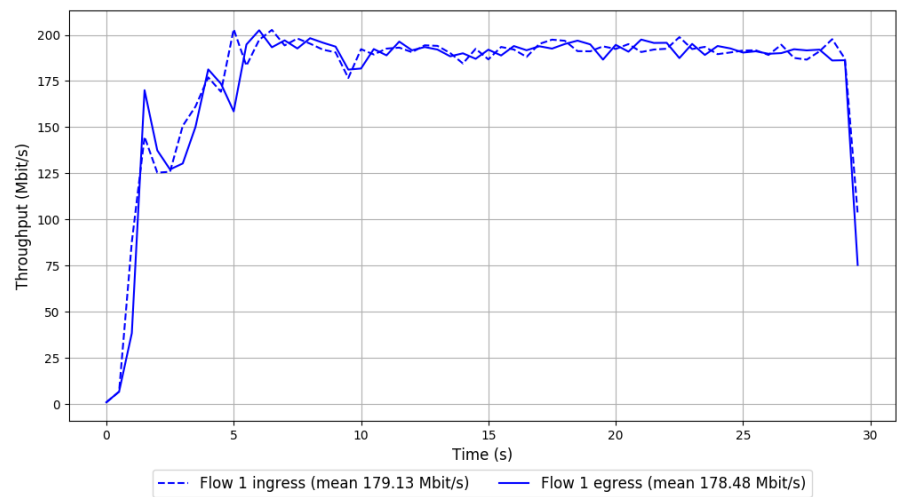
-- Flow 1:

Average throughput: 178.48 Mbit/s

95th percentile per-packet one-way delay: 87.694 ms

Loss rate: 0.93%

Run 3: Report of Indigo — Data Link

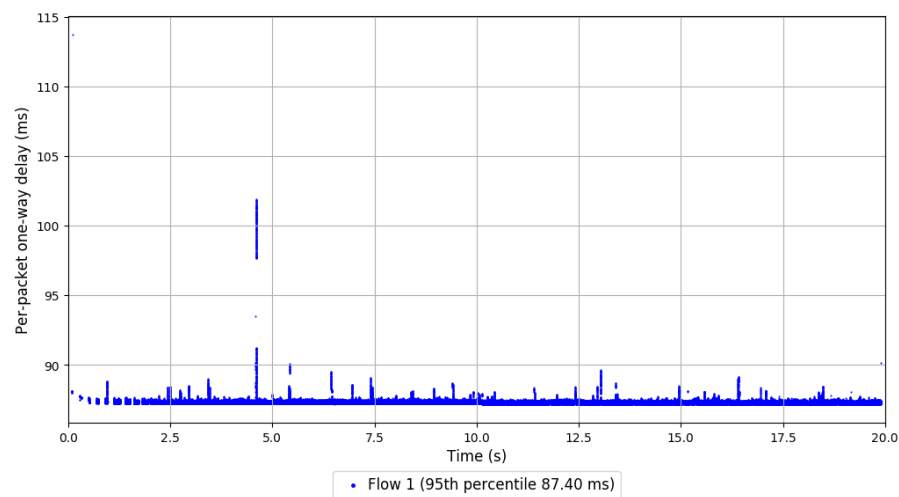
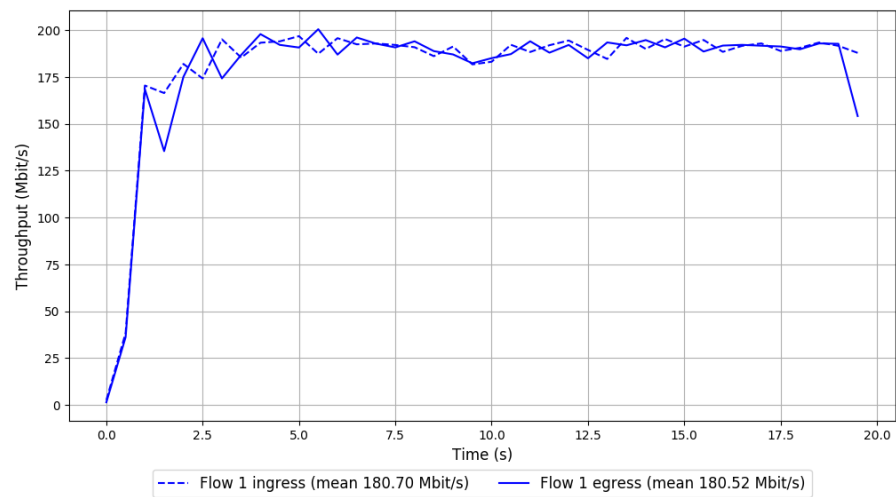


Run 4: Statistics of Indigo

Start at: 2018-01-16 08:23:41

End at: 2018-01-16 08:24:11

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 08:38:31

End at: 2018-01-16 08:39:01

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.23 Mbit/s

95th percentile per-packet one-way delay: 87.187 ms

Loss rate: 0.53%

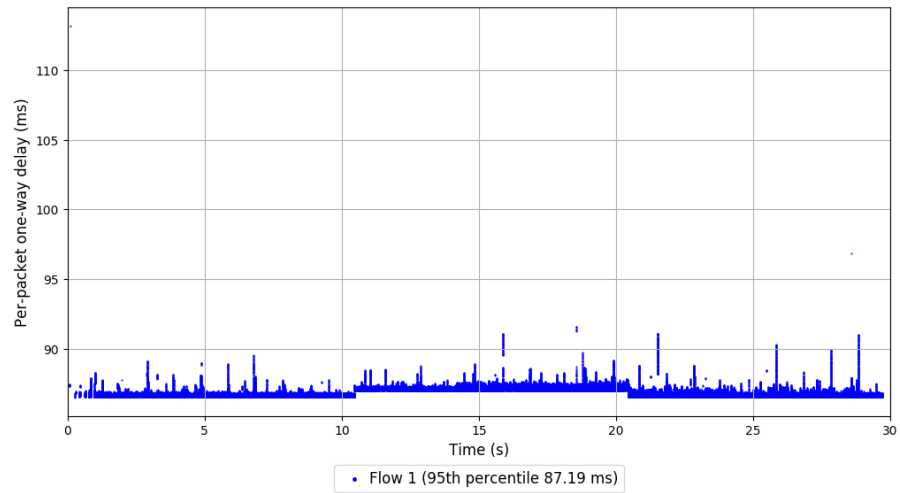
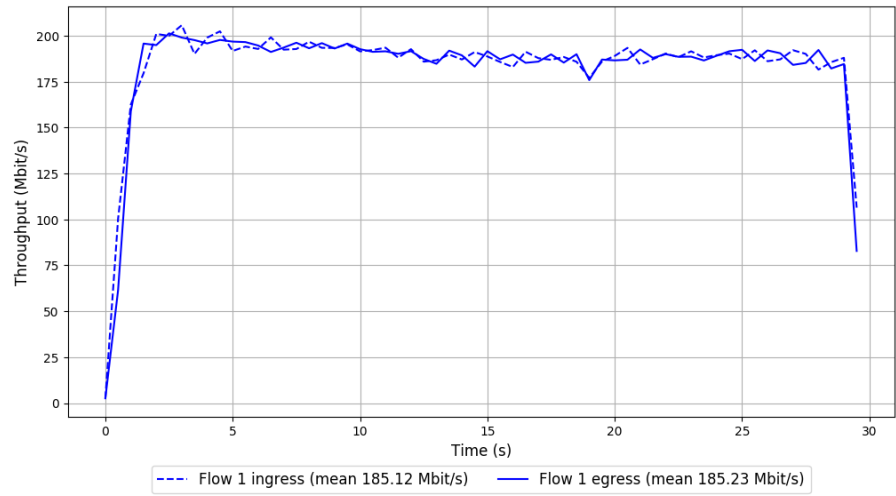
-- Flow 1:

Average throughput: 185.23 Mbit/s

95th percentile per-packet one-way delay: 87.187 ms

Loss rate: 0.53%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 08:53:14

End at: 2018-01-16 08:53:44

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.40 Mbit/s

95th percentile per-packet one-way delay: 87.562 ms

Loss rate: 0.54%

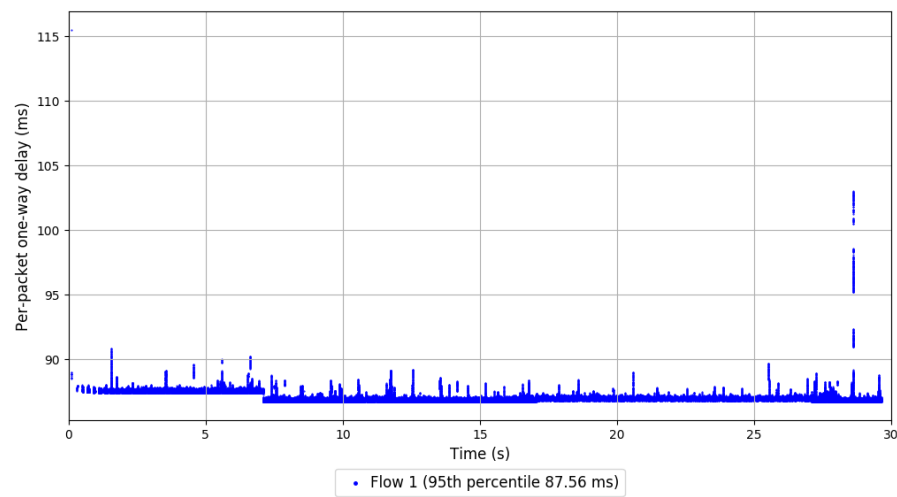
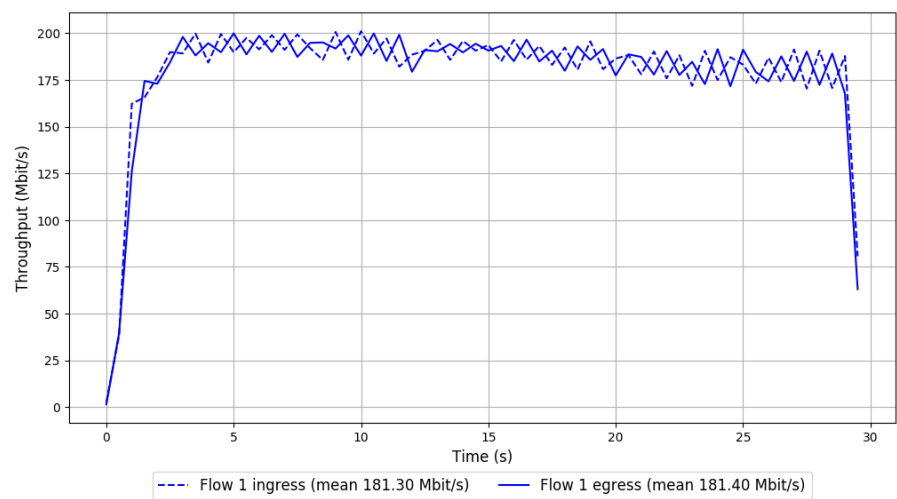
-- Flow 1:

Average throughput: 181.40 Mbit/s

95th percentile per-packet one-way delay: 87.562 ms

Loss rate: 0.54%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 09:07:22

End at: 2018-01-16 09:07:52

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.76 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.64%

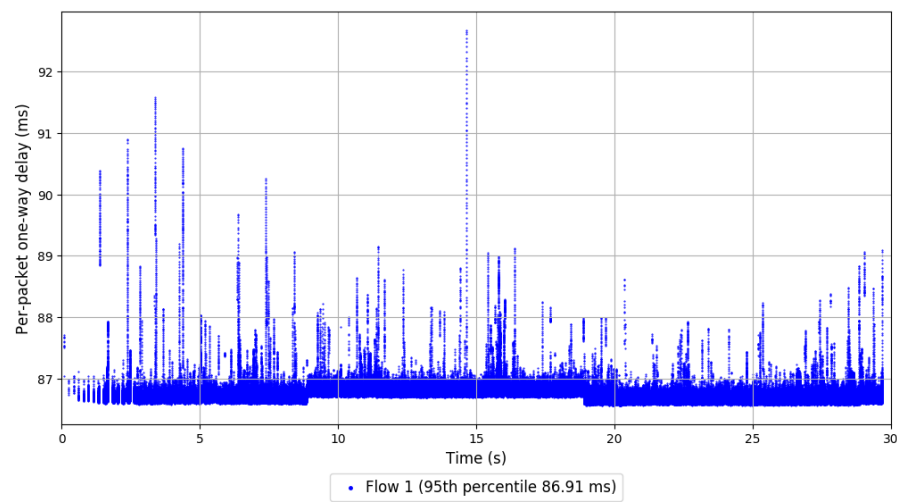
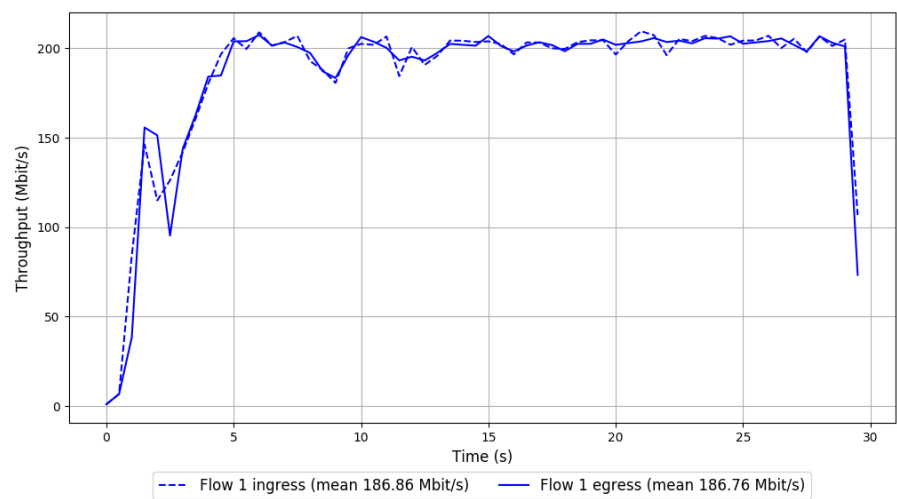
-- Flow 1:

Average throughput: 186.76 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.64%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 09:22:22

End at: 2018-01-16 09:22:52

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.52 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.64%

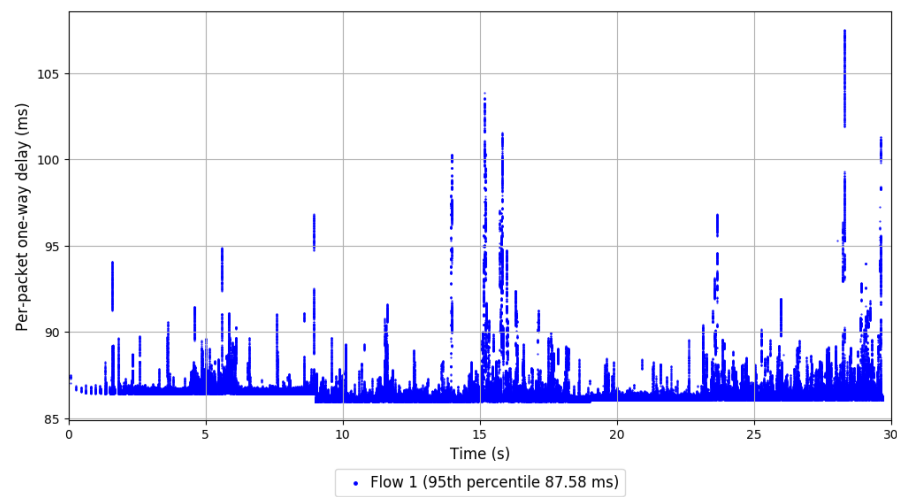
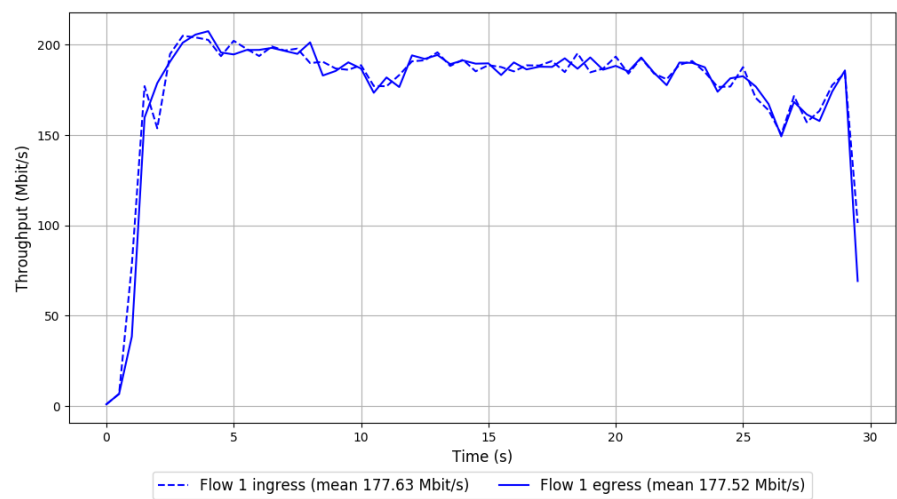
-- Flow 1:

Average throughput: 177.52 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.64%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 09:37:04

End at: 2018-01-16 09:37:34

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.64%

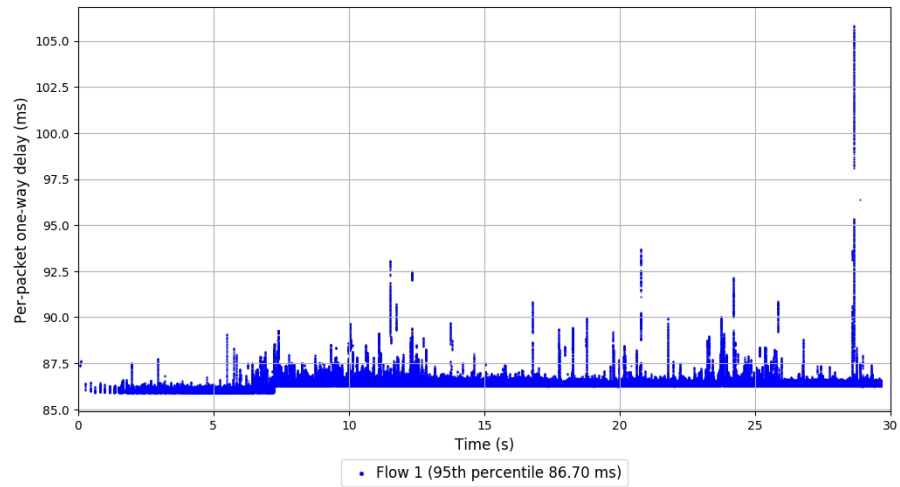
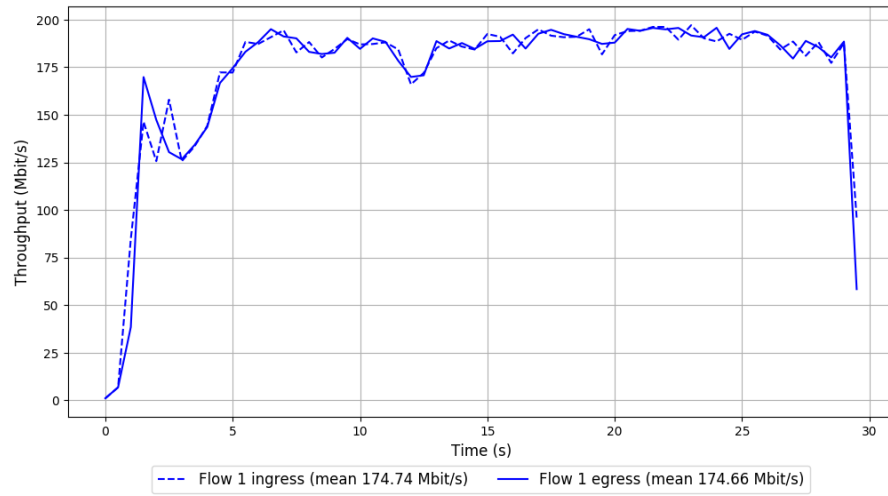
-- Flow 1:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.64%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 09:51:37

End at: 2018-01-16 09:52:07

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.82 Mbit/s

95th percentile per-packet one-way delay: 114.093 ms

Loss rate: 0.81%

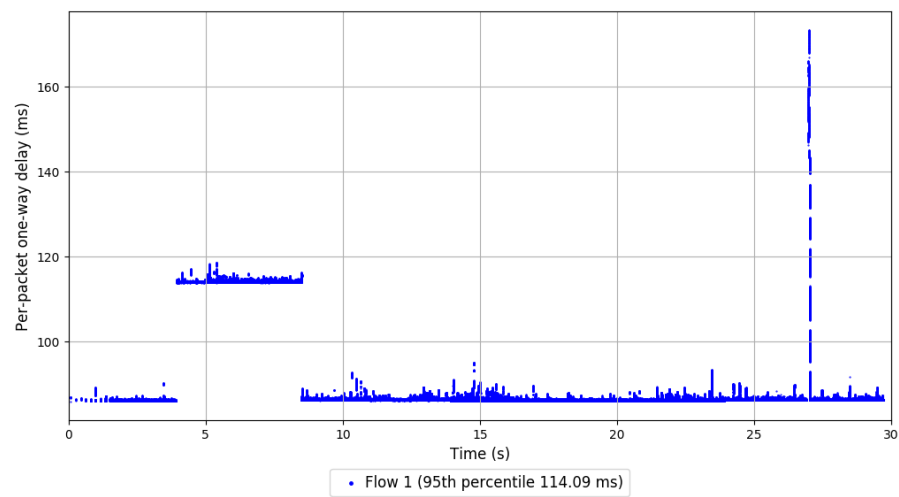
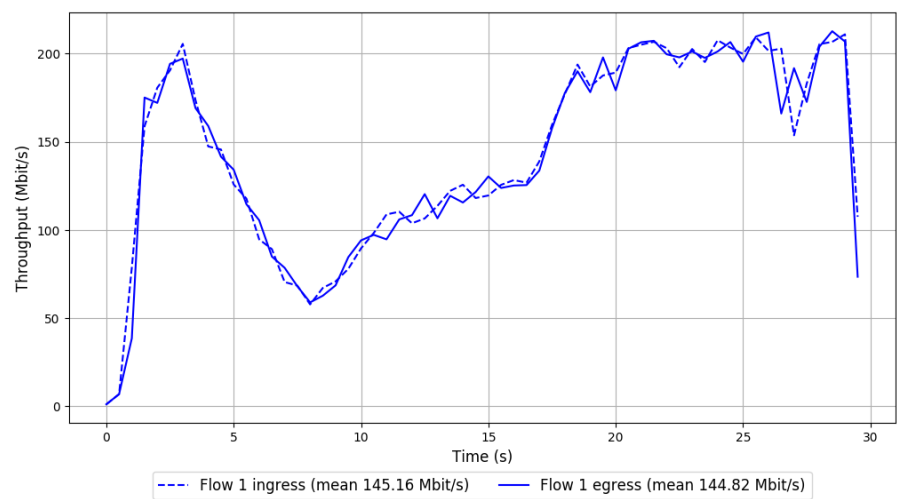
-- Flow 1:

Average throughput: 144.82 Mbit/s

95th percentile per-packet one-way delay: 114.093 ms

Loss rate: 0.81%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 07:34:15

End at: 2018-01-16 07:34:45

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 88.755 ms

Loss rate: 0.51%

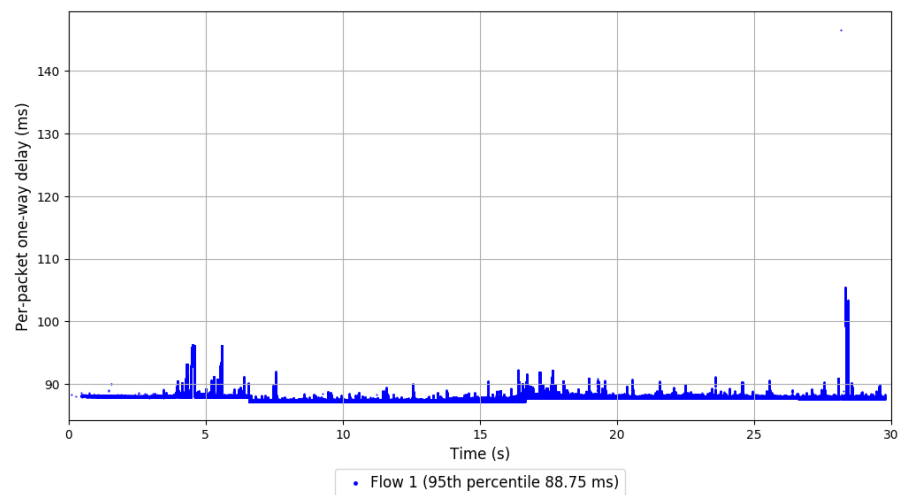
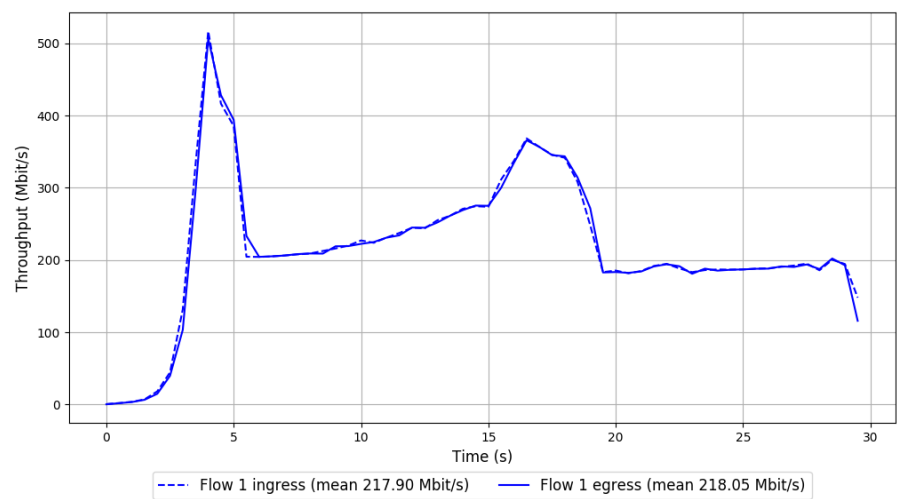
-- Flow 1:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 88.755 ms

Loss rate: 0.51%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 07:49:35

End at: 2018-01-16 07:50:05

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.70 Mbit/s

95th percentile per-packet one-way delay: 92.776 ms

Loss rate: 0.72%

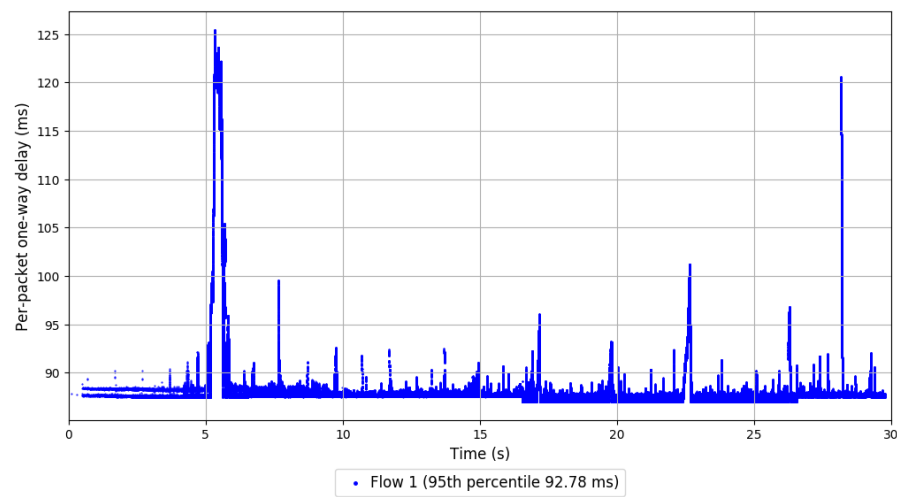
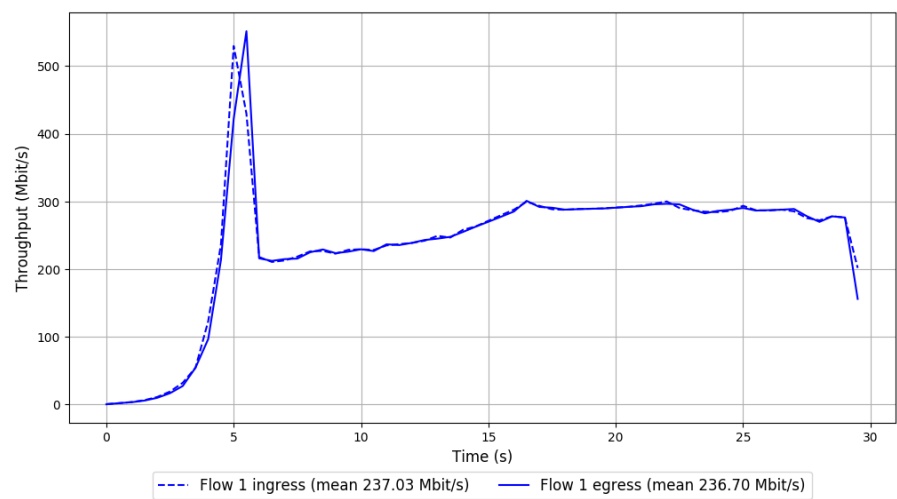
-- Flow 1:

Average throughput: 236.70 Mbit/s

95th percentile per-packet one-way delay: 92.776 ms

Loss rate: 0.72%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 08:04:47

End at: 2018-01-16 08:05:17

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.02 Mbit/s

95th percentile per-packet one-way delay: 88.811 ms

Loss rate: 1.40%

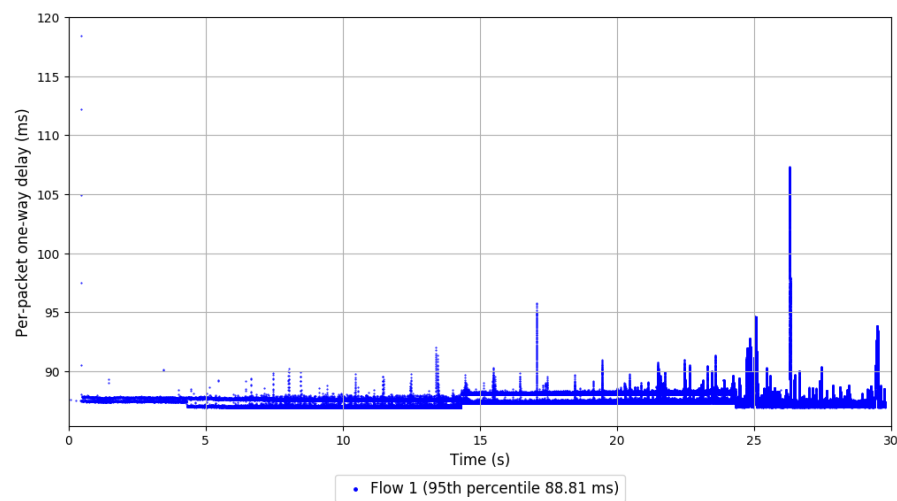
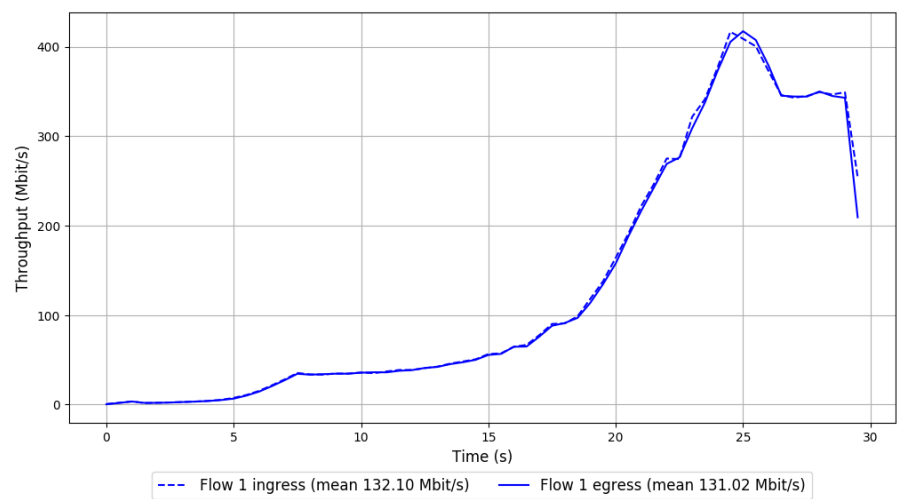
-- Flow 1:

Average throughput: 131.02 Mbit/s

95th percentile per-packet one-way delay: 88.811 ms

Loss rate: 1.40%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 08:19:36

End at: 2018-01-16 08:20:06

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 89.061 ms

Loss rate: 0.77%

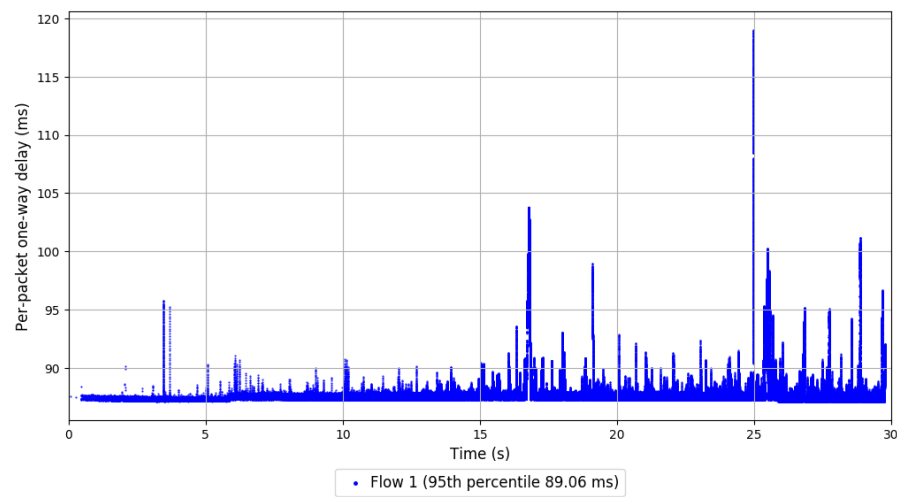
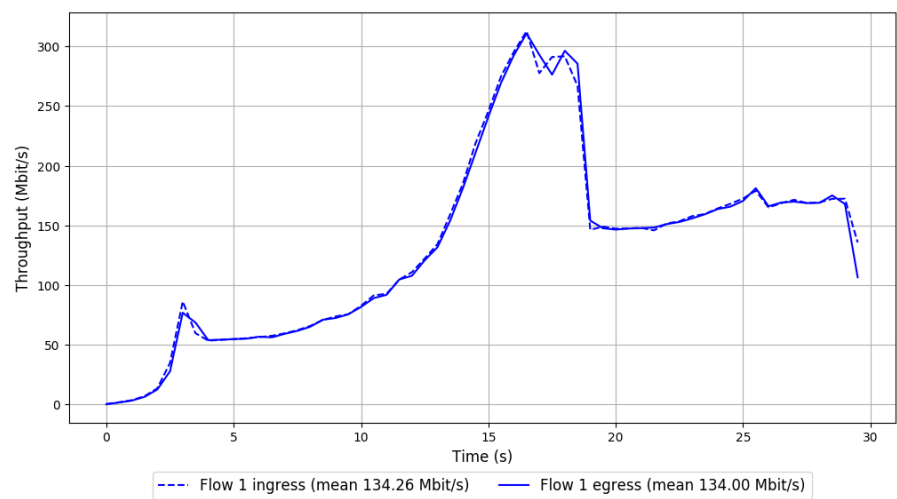
-- Flow 1:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 89.061 ms

Loss rate: 0.77%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 08:34:31

End at: 2018-01-16 08:35:01

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.87 Mbit/s

95th percentile per-packet one-way delay: 115.345 ms

Loss rate: 0.59%

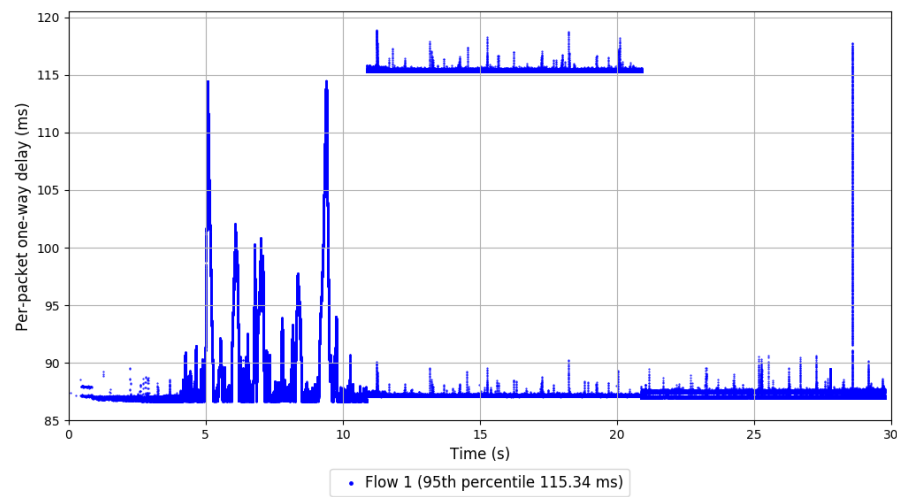
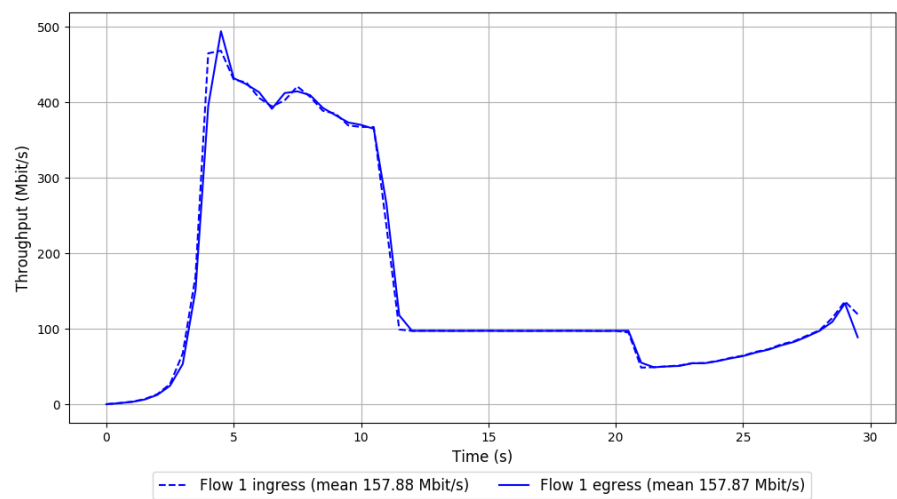
-- Flow 1:

Average throughput: 157.87 Mbit/s

95th percentile per-packet one-way delay: 115.345 ms

Loss rate: 0.59%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 08:49:22

End at: 2018-01-16 08:49:52

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 2.25%

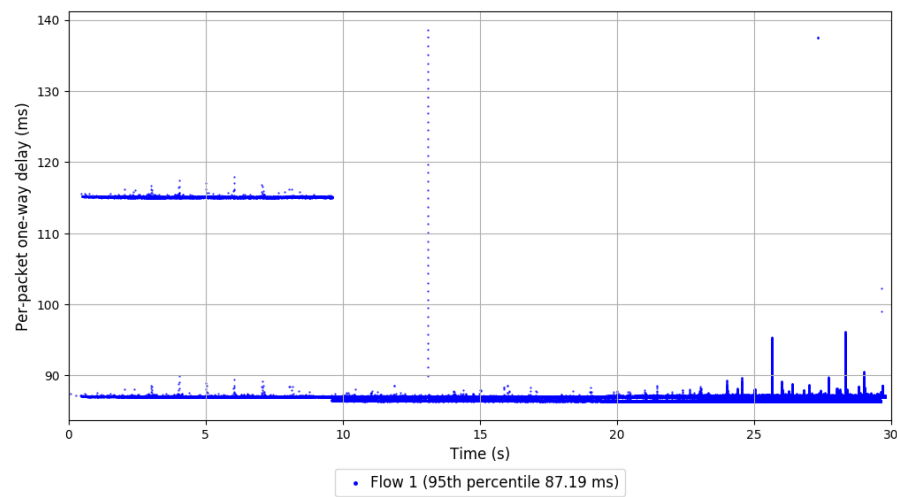
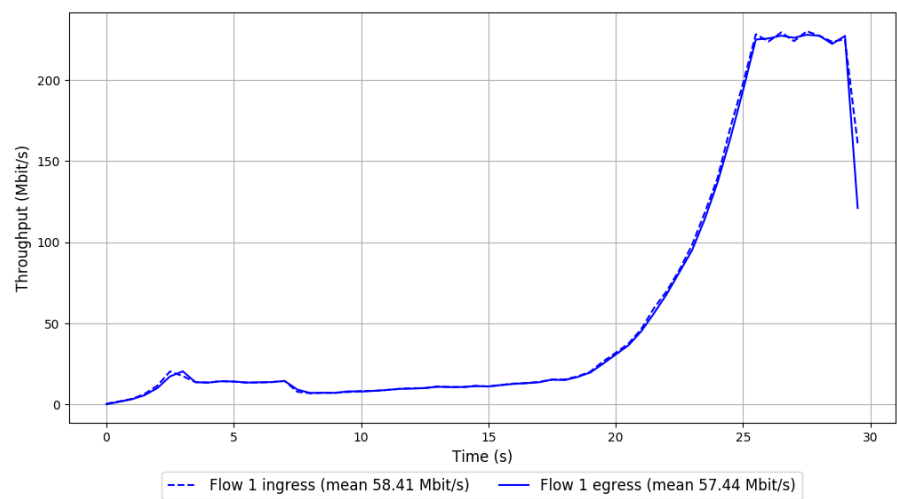
-- Flow 1:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 2.25%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 09:03:24

End at: 2018-01-16 09:03:54

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.50 Mbit/s

95th percentile per-packet one-way delay: 109.468 ms

Loss rate: 0.96%

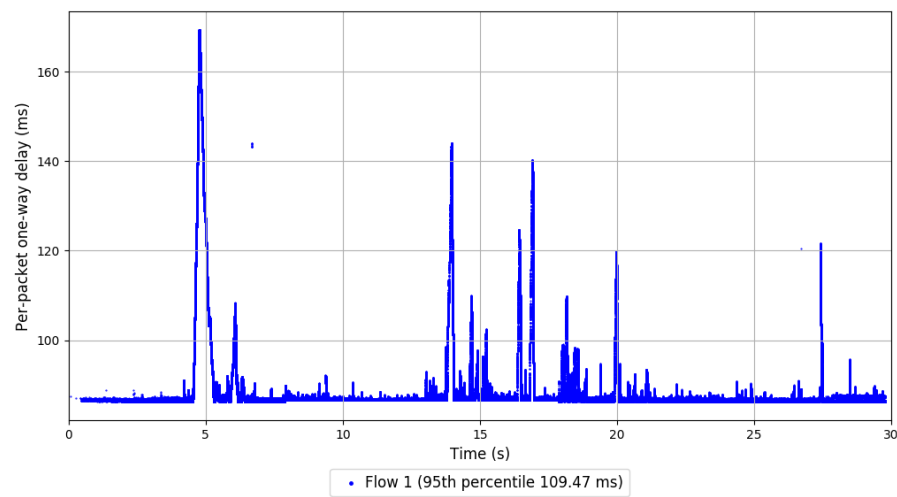
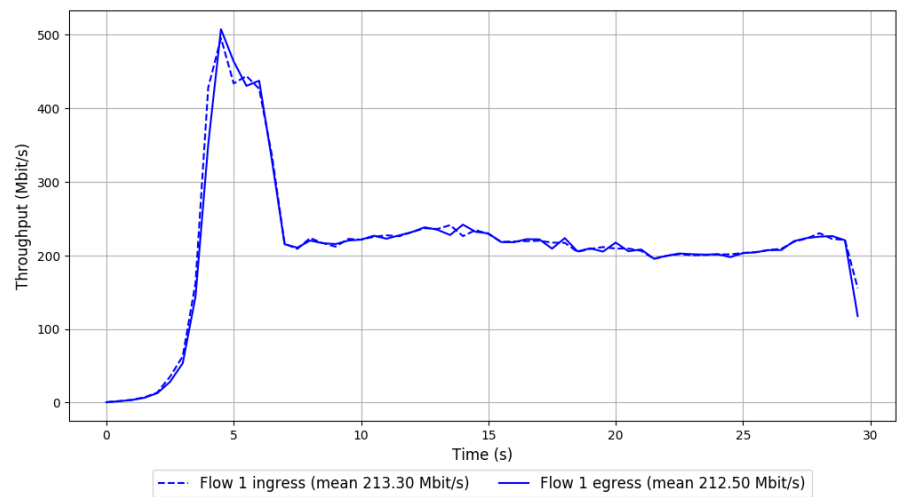
-- Flow 1:

Average throughput: 212.50 Mbit/s

95th percentile per-packet one-way delay: 109.468 ms

Loss rate: 0.96%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 09:18:42

End at: 2018-01-16 09:19:12

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 114.666 ms

Loss rate: 1.37%

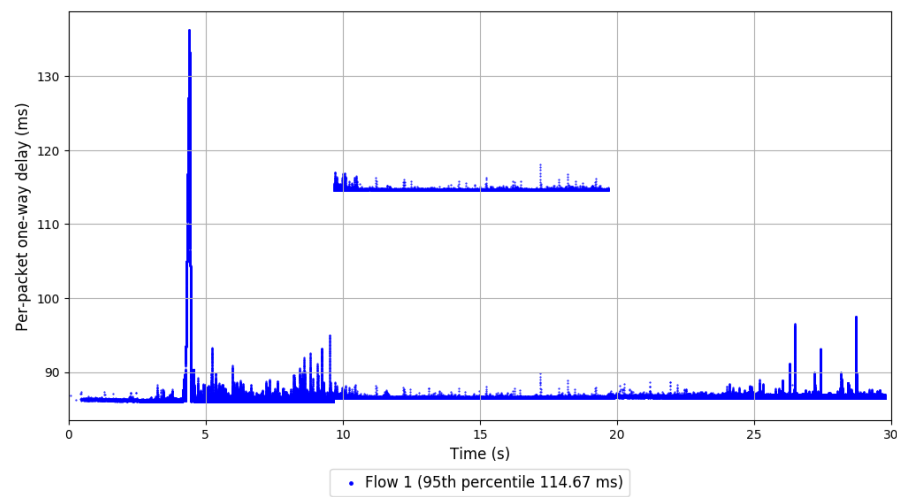
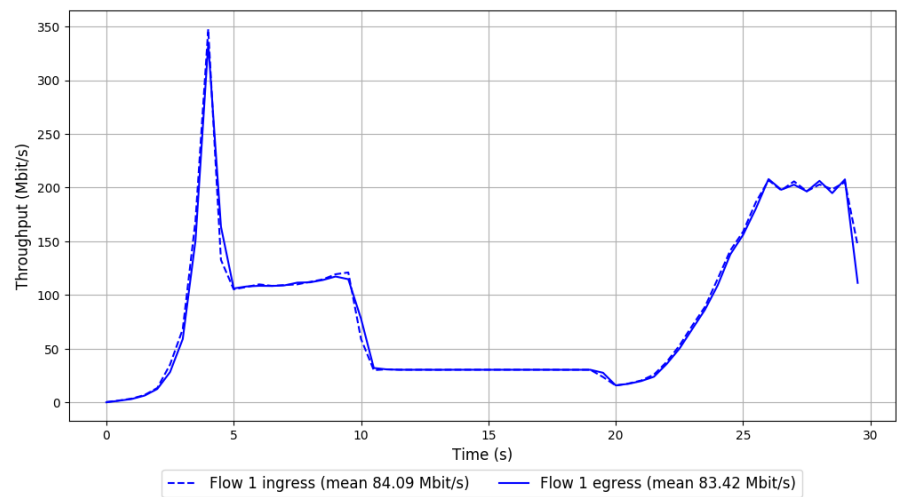
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 114.666 ms

Loss rate: 1.37%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 09:33:16

End at: 2018-01-16 09:33:46

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 114.474 ms

Loss rate: 0.24%

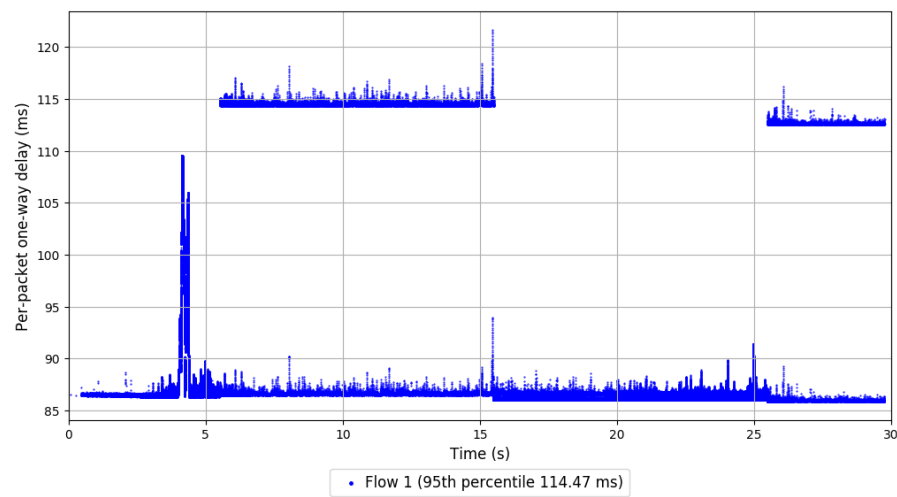
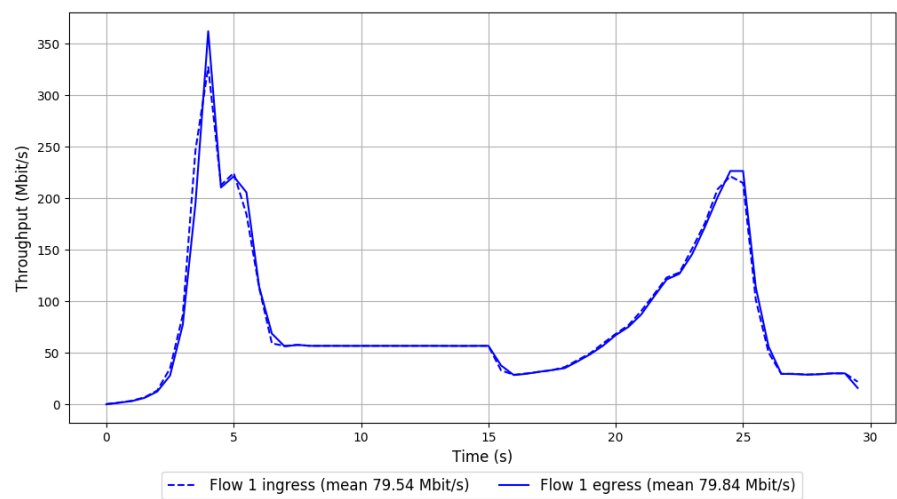
-- Flow 1:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 114.474 ms

Loss rate: 0.24%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 09:47:54

End at: 2018-01-16 09:48:24

Below is generated by plot.py at 2018-01-16 13:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.26 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 0.52%

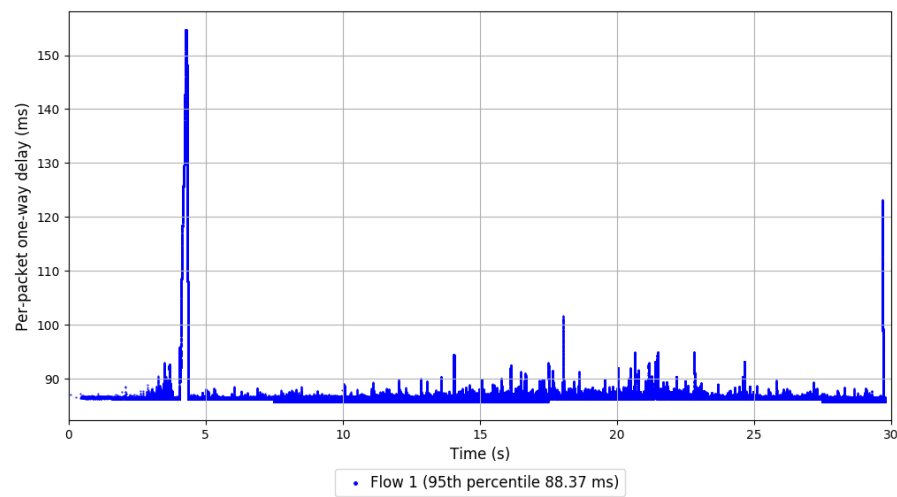
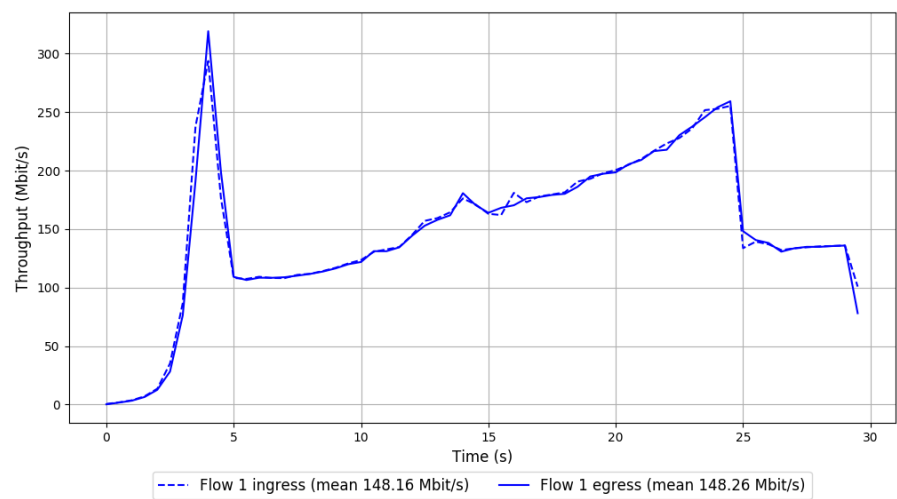
-- Flow 1:

Average throughput: 148.26 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 0.52%

Run 10: Report of Vivace-latency — Data Link

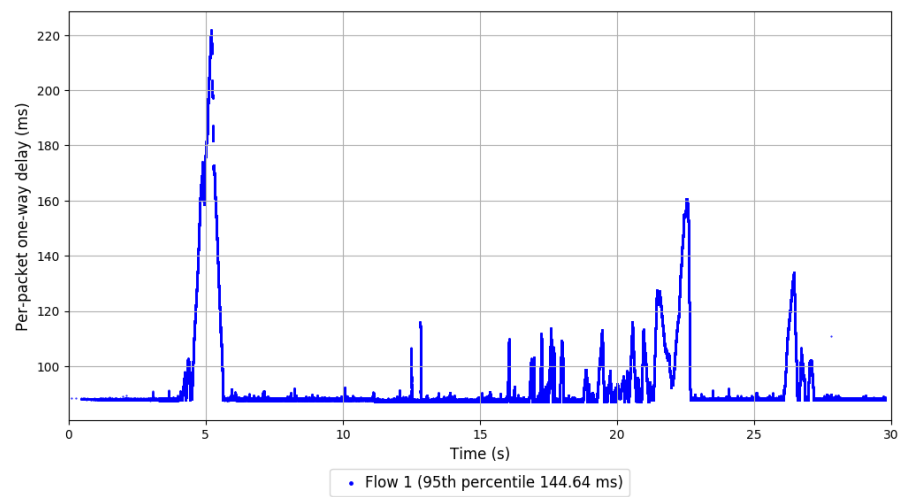
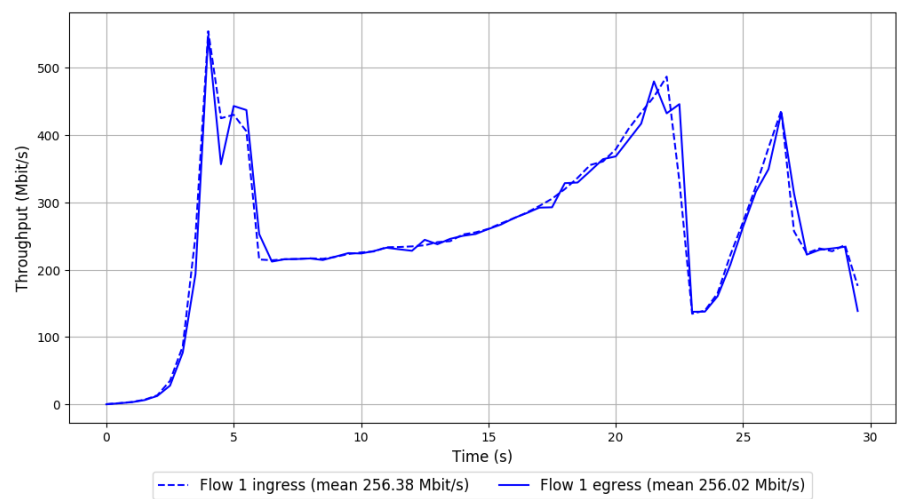


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 07:24:20
End at: 2018-01-16 07:24:50

# Below is generated by plot.py at 2018-01-16 13:27:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.02 Mbit/s
95th percentile per-packet one-way delay: 144.644 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 256.02 Mbit/s
95th percentile per-packet one-way delay: 144.644 ms
Loss rate: 0.72%
```

Run 1: Report of Vivace-loss — Data Link

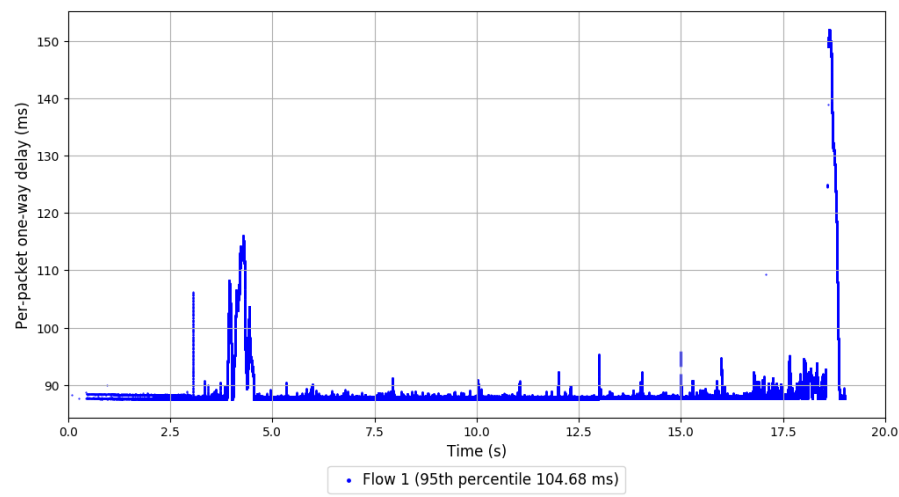
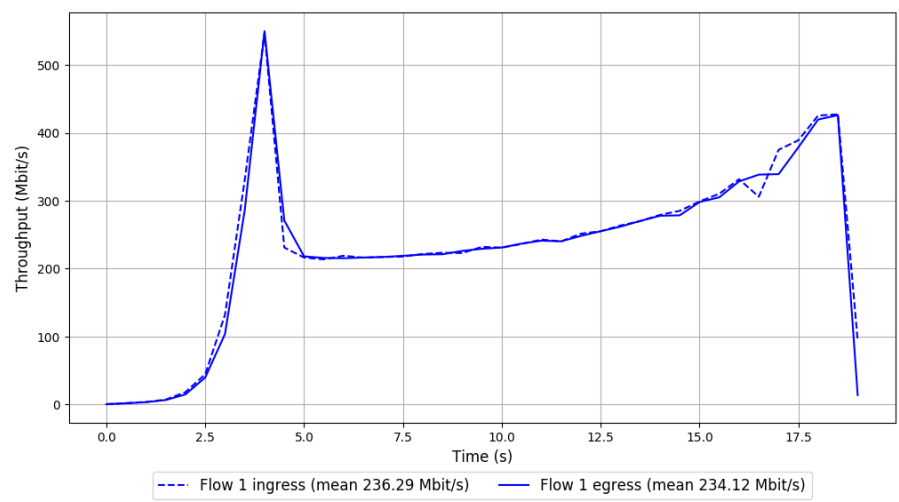


Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 07:39:18

End at: 2018-01-16 07:39:48

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 07:54:43

End at: 2018-01-16 07:55:13

Below is generated by plot.py at 2018-01-16 13:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.04 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 1.07%

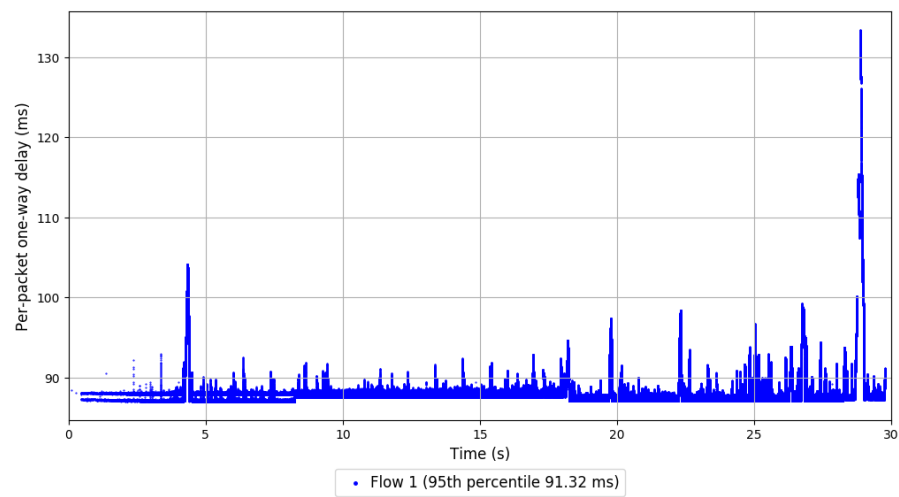
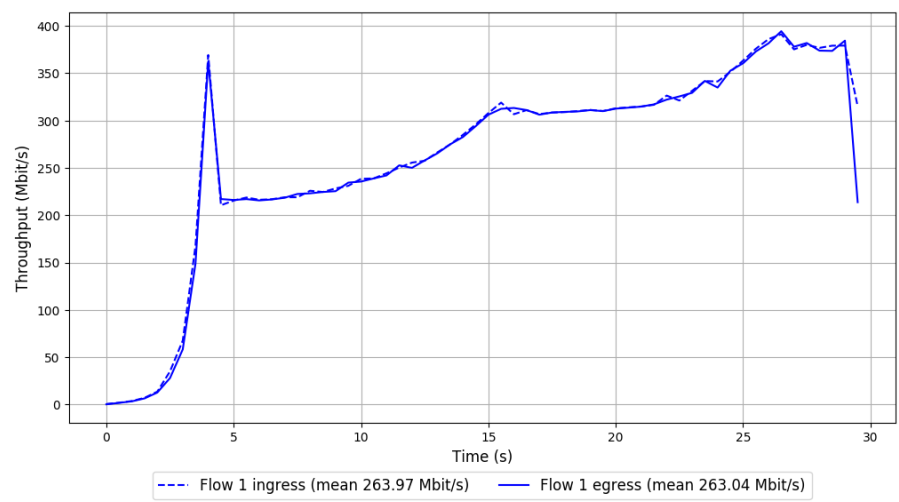
-- Flow 1:

Average throughput: 263.04 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 1.07%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 08:09:45

End at: 2018-01-16 08:10:15

Below is generated by plot.py at 2018-01-16 13:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 91.116 ms

Loss rate: 0.94%

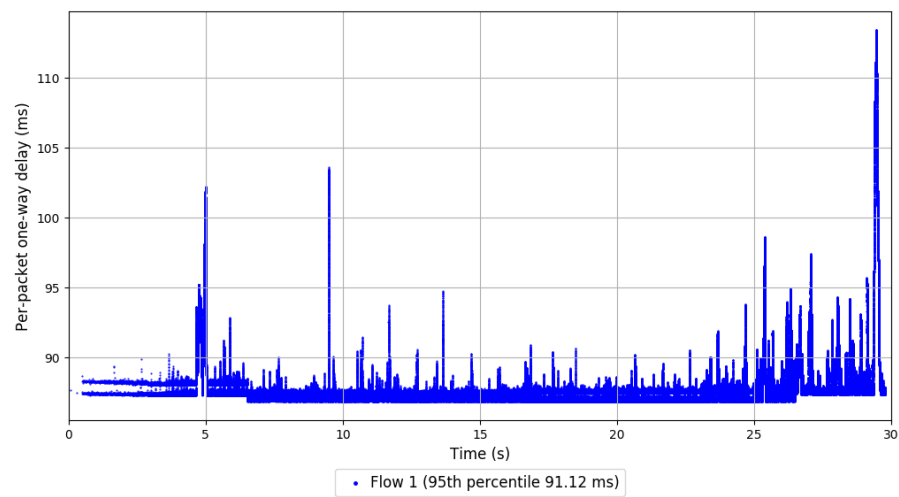
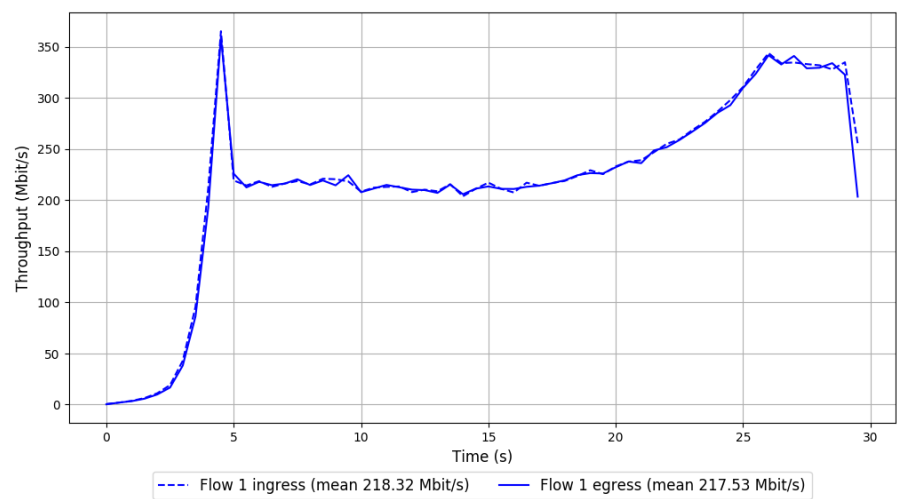
-- Flow 1:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 91.116 ms

Loss rate: 0.94%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 08:24:30

End at: 2018-01-16 08:25:00

Below is generated by plot.py at 2018-01-16 13:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.66 Mbit/s

95th percentile per-packet one-way delay: 115.148 ms

Loss rate: 0.32%

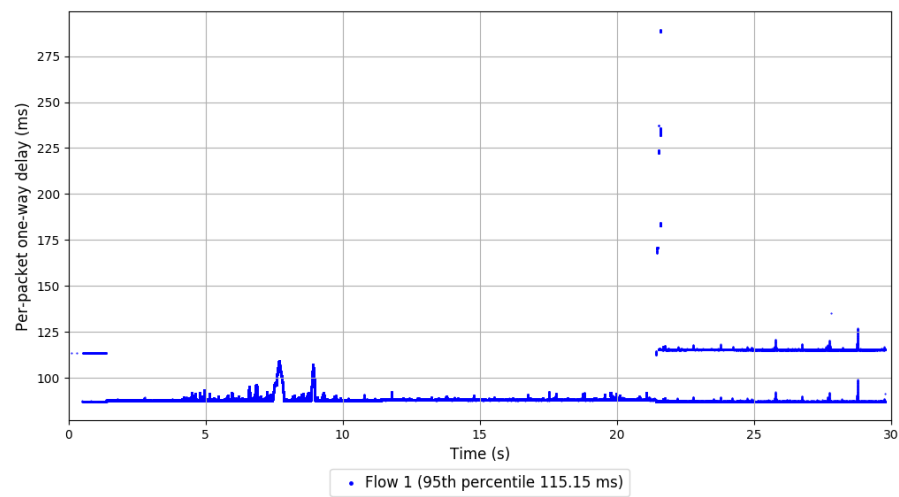
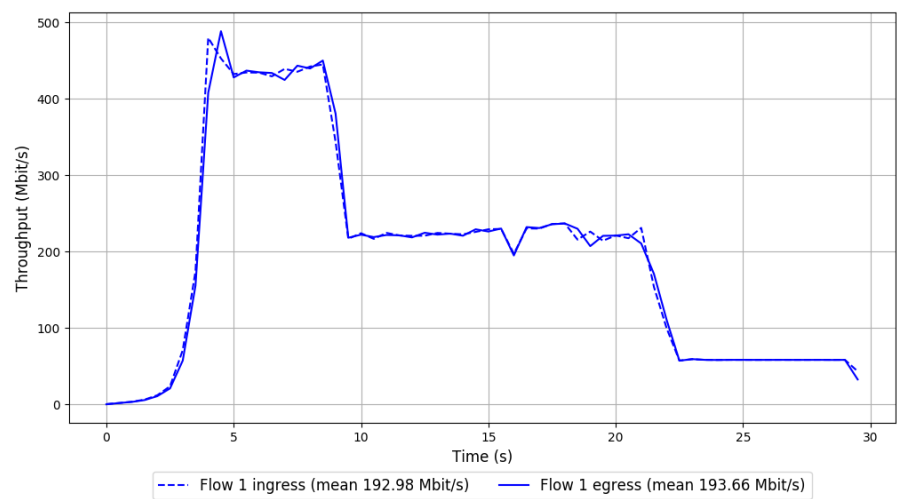
-- Flow 1:

Average throughput: 193.66 Mbit/s

95th percentile per-packet one-way delay: 115.148 ms

Loss rate: 0.32%

Run 5: Report of Vivace-loss — Data Link

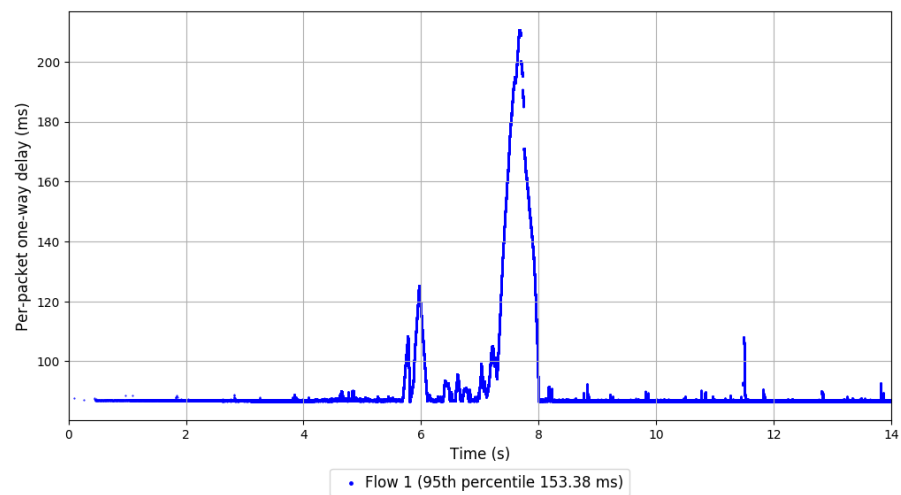
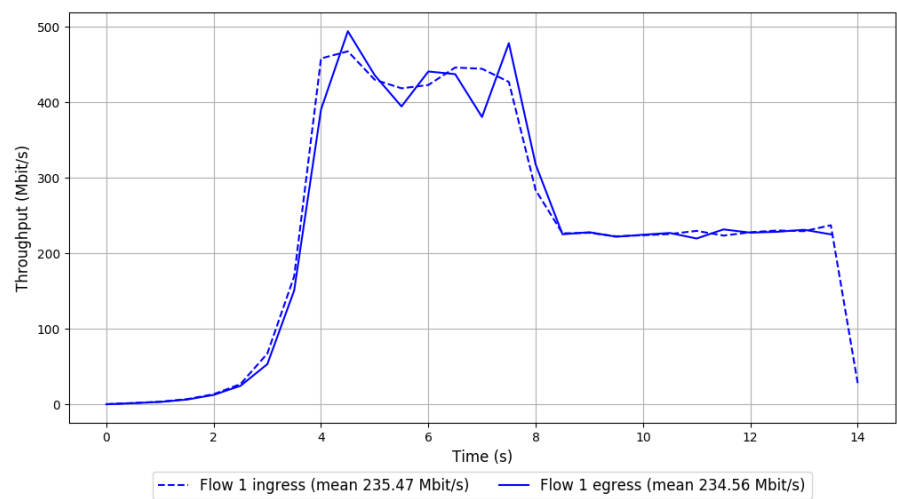


Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 08:39:25

End at: 2018-01-16 08:39:55

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 08:54:08

End at: 2018-01-16 08:54:38

Below is generated by plot.py at 2018-01-16 13:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 114.890 ms

Loss rate: 0.98%

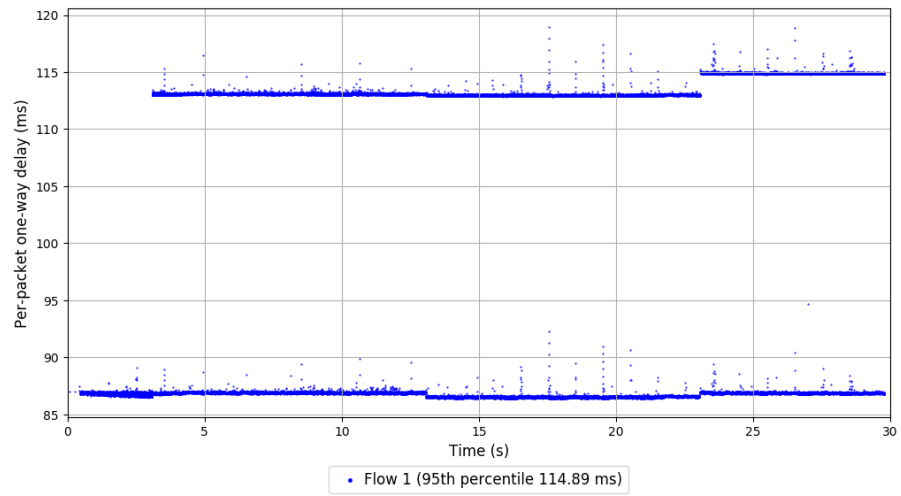
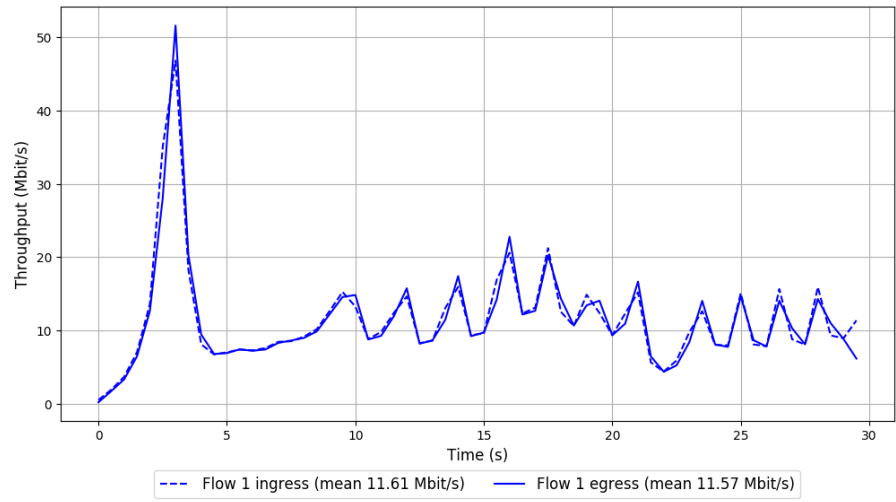
-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 114.890 ms

Loss rate: 0.98%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 09:08:17

End at: 2018-01-16 09:08:47

Below is generated by plot.py at 2018-01-16 13:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.06 Mbit/s

95th percentile per-packet one-way delay: 97.307 ms

Loss rate: 0.45%

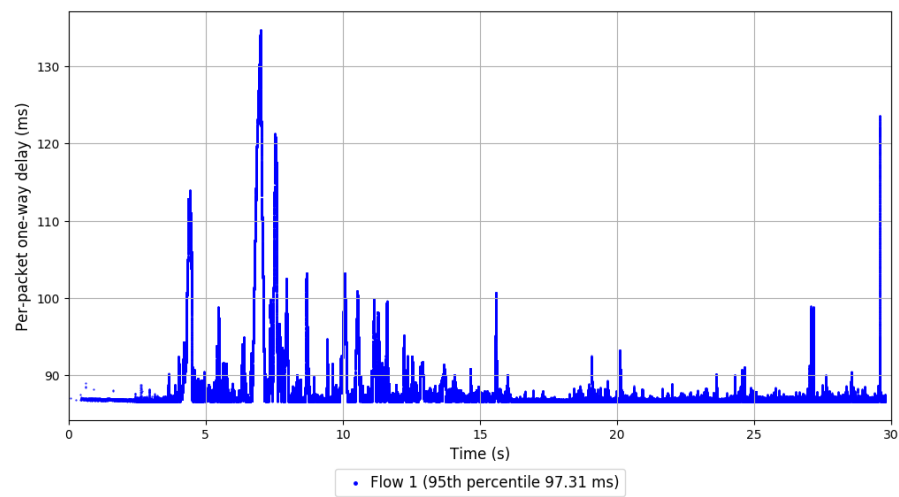
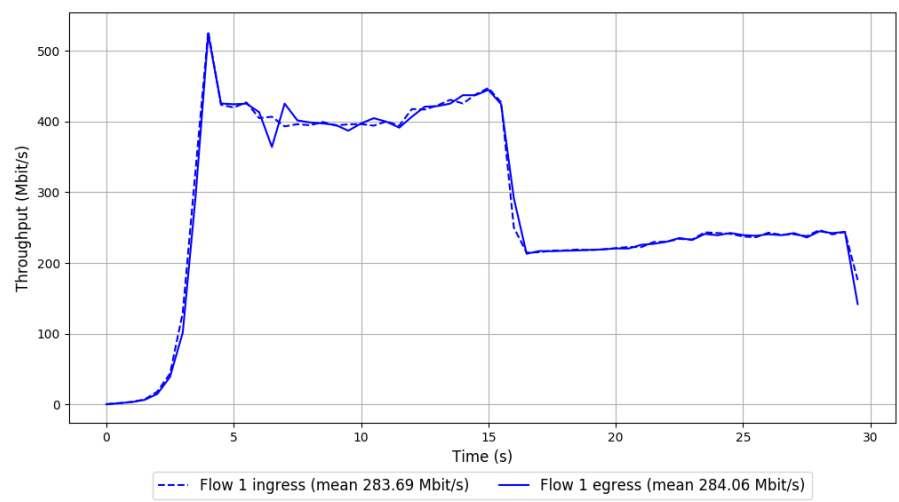
-- Flow 1:

Average throughput: 284.06 Mbit/s

95th percentile per-packet one-way delay: 97.307 ms

Loss rate: 0.45%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 09:23:16

End at: 2018-01-16 09:23:46

Below is generated by plot.py at 2018-01-16 13:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.16 Mbit/s

95th percentile per-packet one-way delay: 164.090 ms

Loss rate: 1.00%

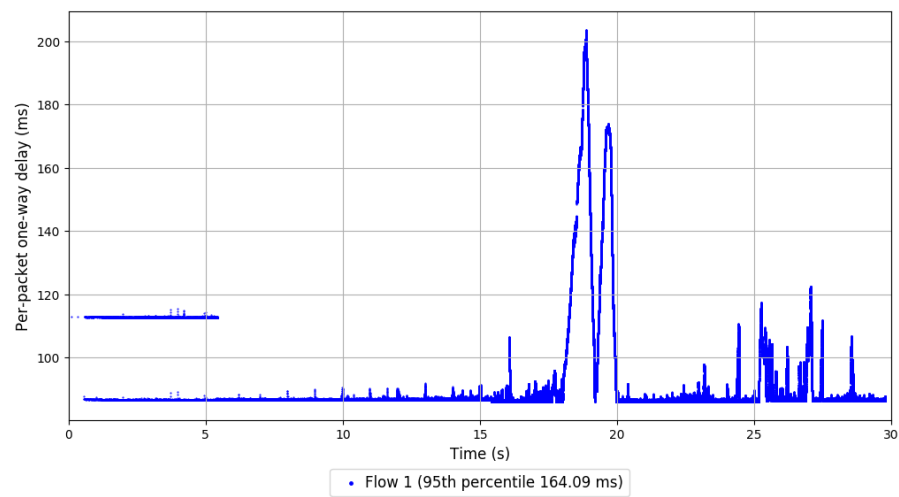
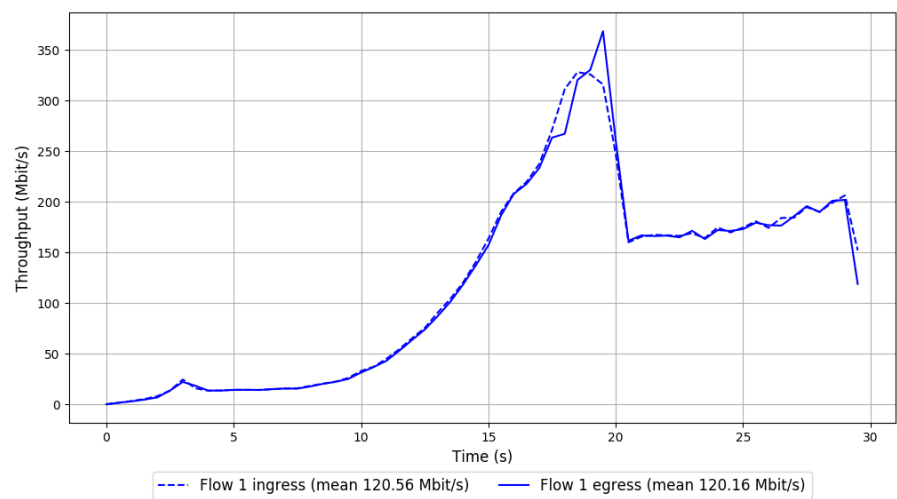
-- Flow 1:

Average throughput: 120.16 Mbit/s

95th percentile per-packet one-way delay: 164.090 ms

Loss rate: 1.00%

Run 9: Report of Vivace-loss — Data Link

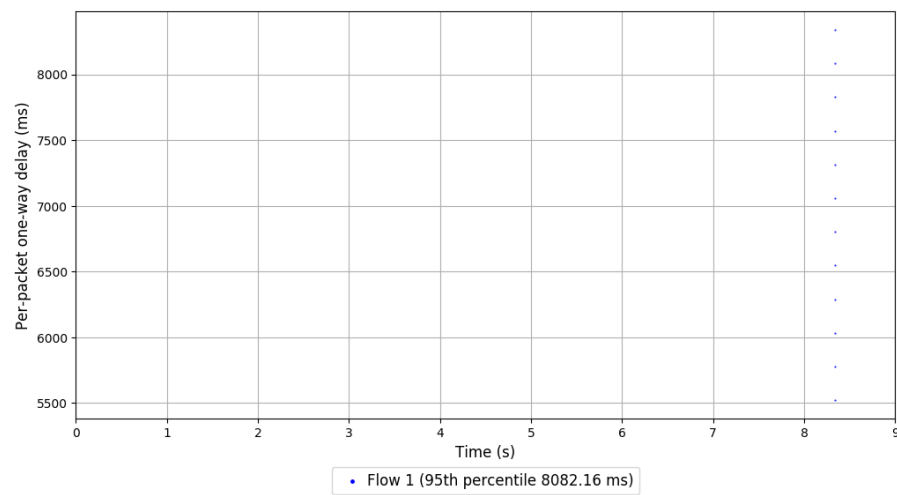
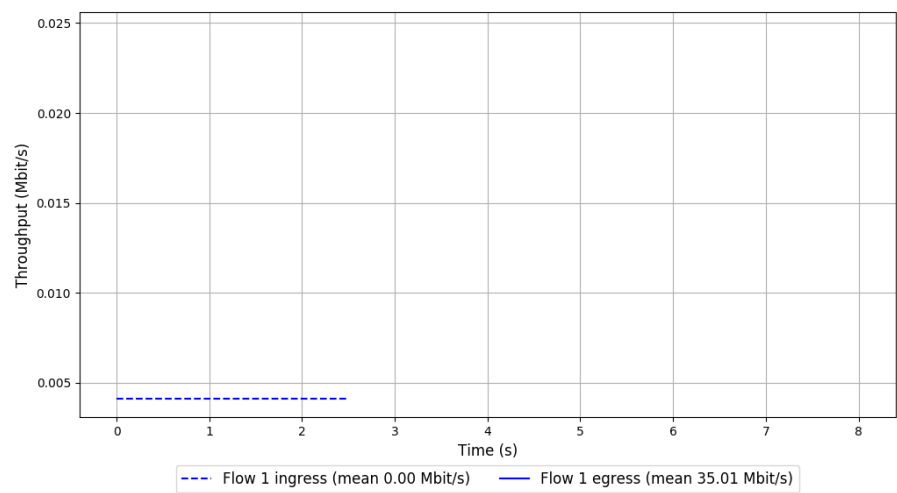


Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 09:37:57

End at: 2018-01-16 09:38:27

Run 10: Report of Vivace-loss — Data Link

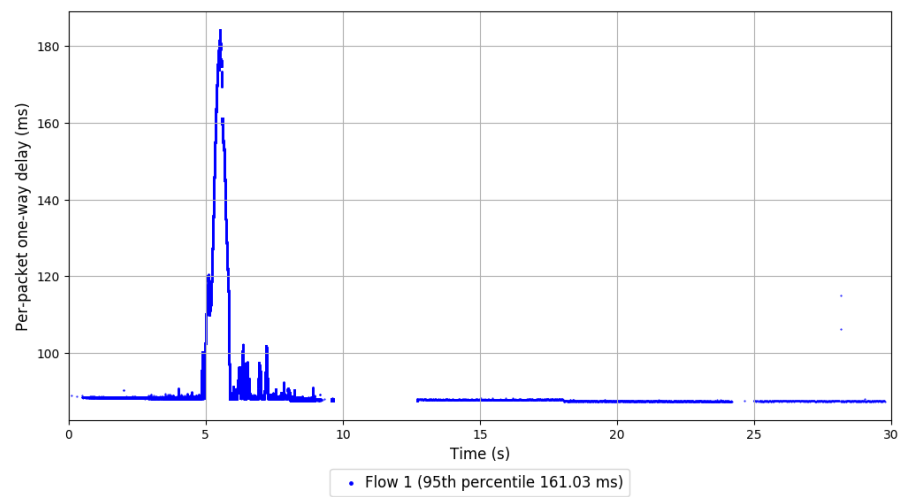
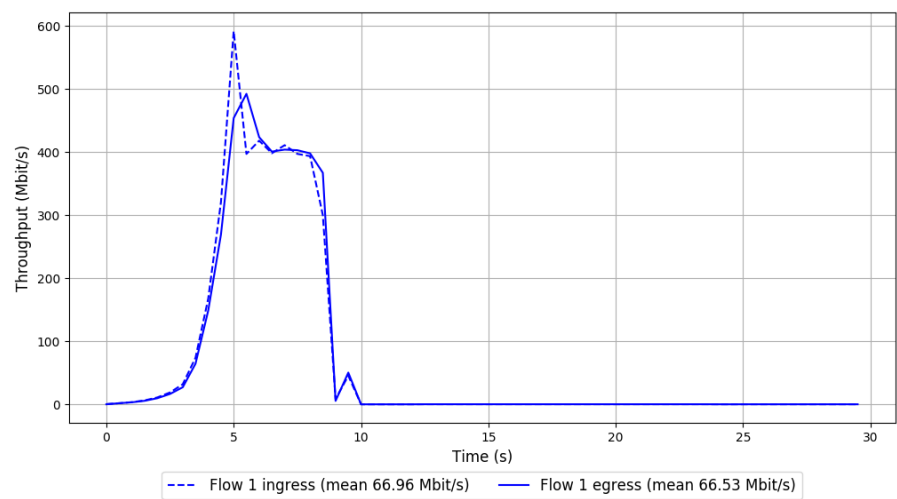


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 07:30:43
End at: 2018-01-16 07:31:13

# Below is generated by plot.py at 2018-01-16 13:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 161.031 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 161.031 ms
Loss rate: 1.29%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 07:45:48

End at: 2018-01-16 07:46:18

Below is generated by plot.py at 2018-01-16 13:32:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.83 Mbit/s

95th percentile per-packet one-way delay: 88.484 ms

Loss rate: 0.80%

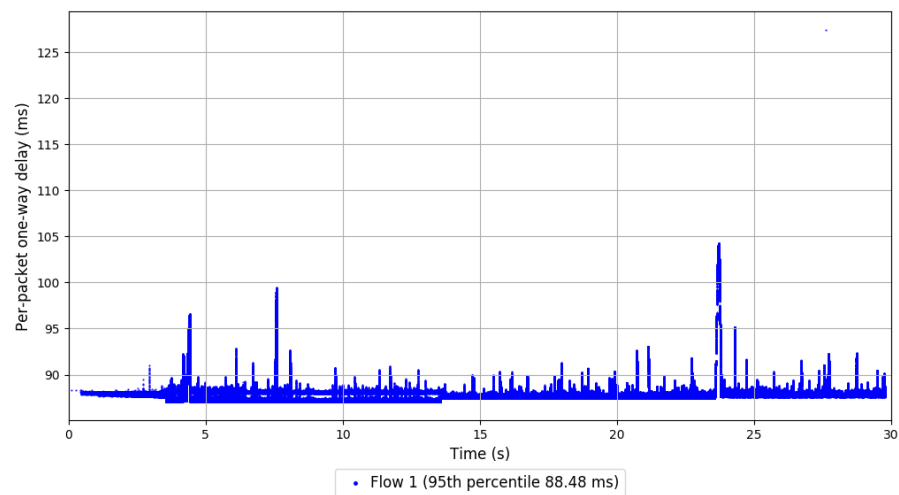
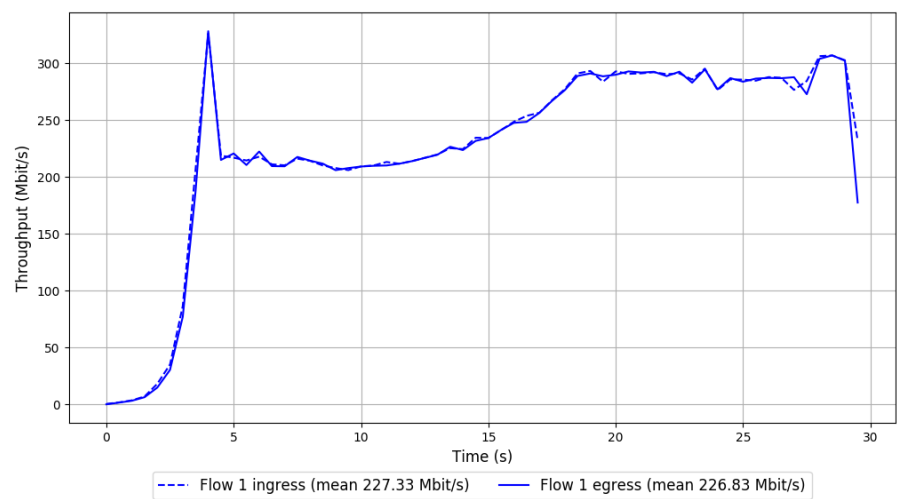
-- Flow 1:

Average throughput: 226.83 Mbit/s

95th percentile per-packet one-way delay: 88.484 ms

Loss rate: 0.80%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 08:01:19

End at: 2018-01-16 08:01:49

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.80 Mbit/s

95th percentile per-packet one-way delay: 90.342 ms

Loss rate: 0.86%

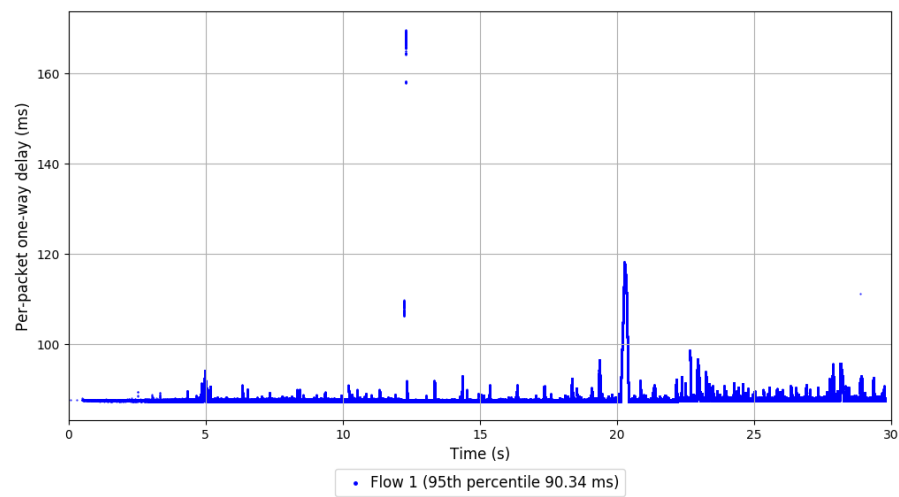
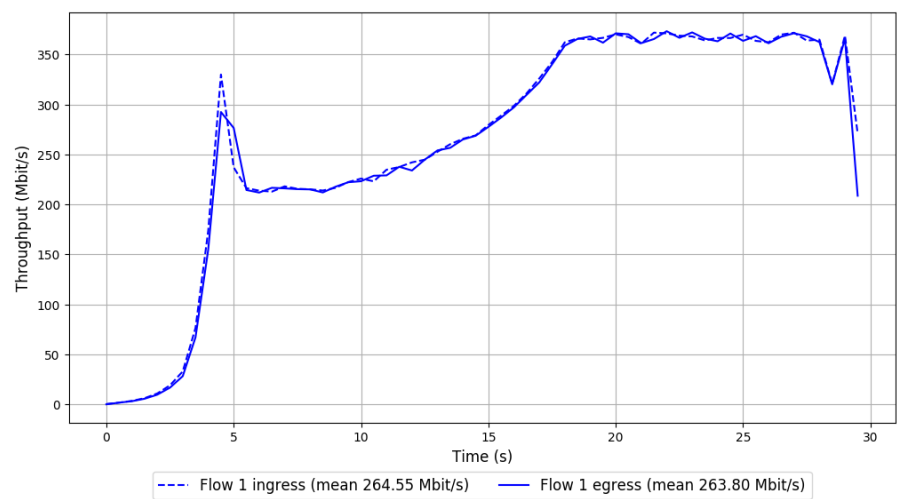
-- Flow 1:

Average throughput: 263.80 Mbit/s

95th percentile per-packet one-way delay: 90.342 ms

Loss rate: 0.86%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 08:16:07

End at: 2018-01-16 08:16:37

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 0.02%

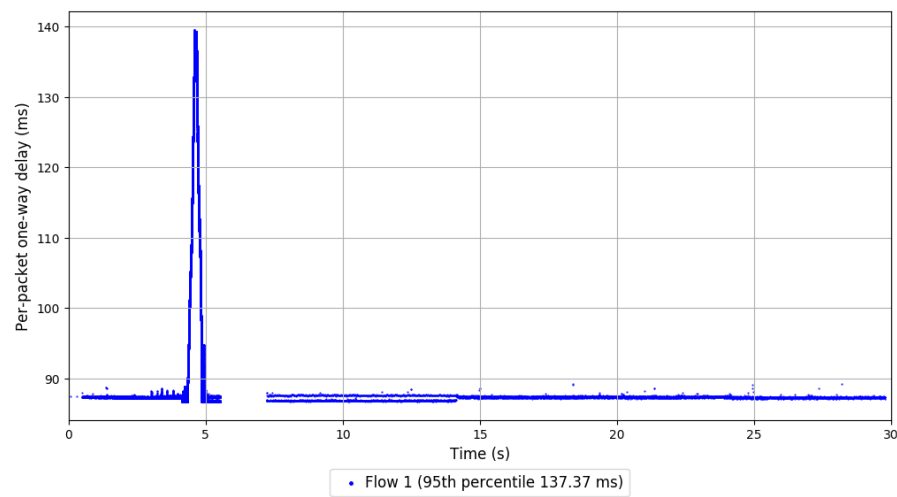
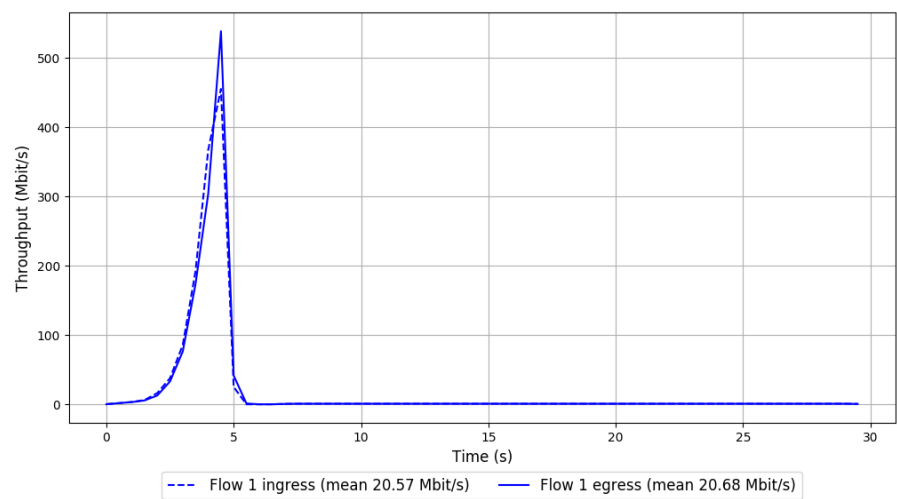
-- Flow 1:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 0.02%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 08:31:01

End at: 2018-01-16 08:31:31

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 114.769 ms

Loss rate: 0.01%

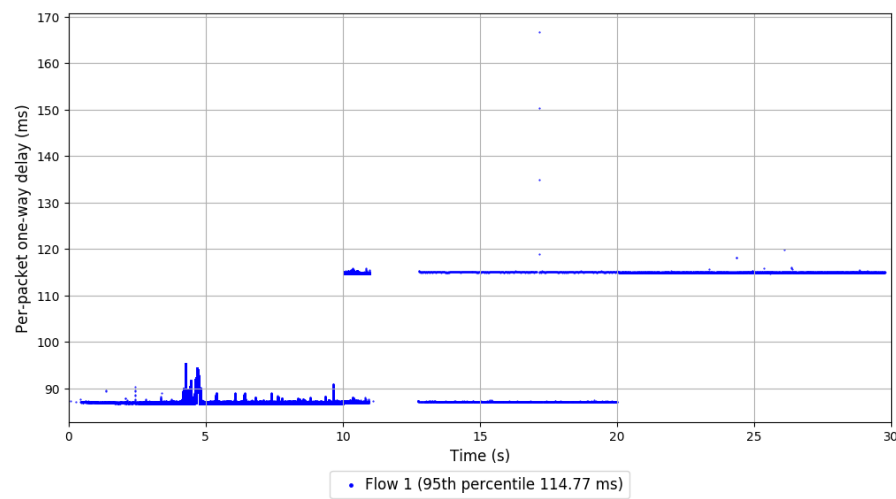
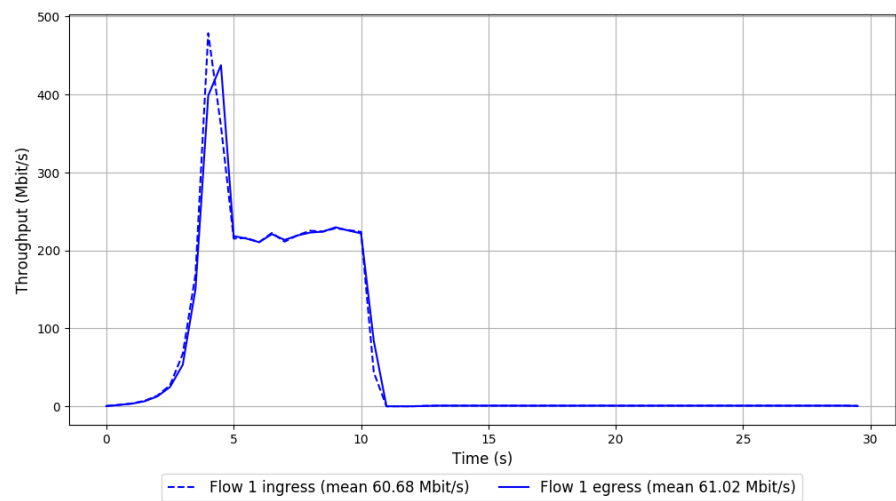
-- Flow 1:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 114.769 ms

Loss rate: 0.01%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 08:45:46

End at: 2018-01-16 08:46:16

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.49%

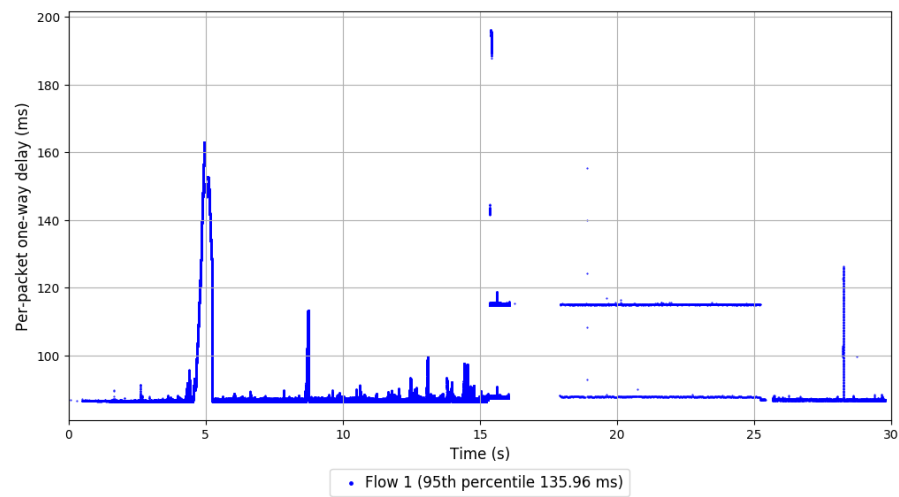
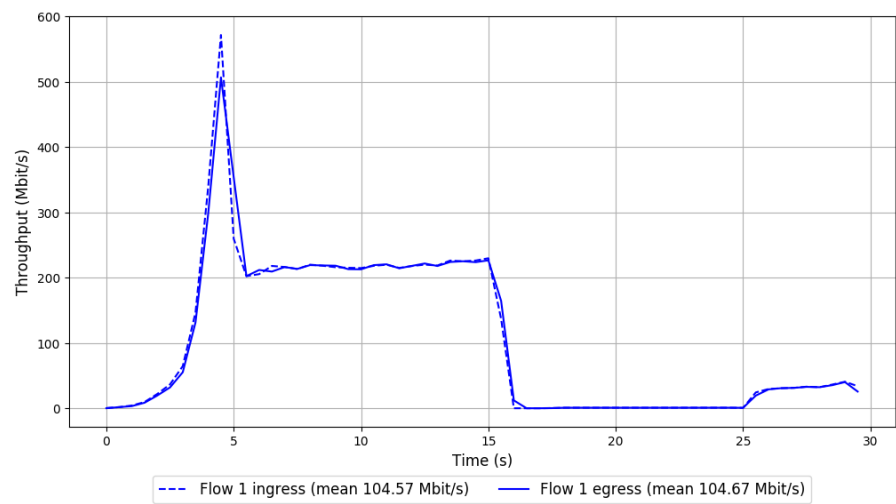
-- Flow 1:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.49%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 08:59:53

End at: 2018-01-16 09:00:23

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 128.757 ms

Loss rate: 2.96%

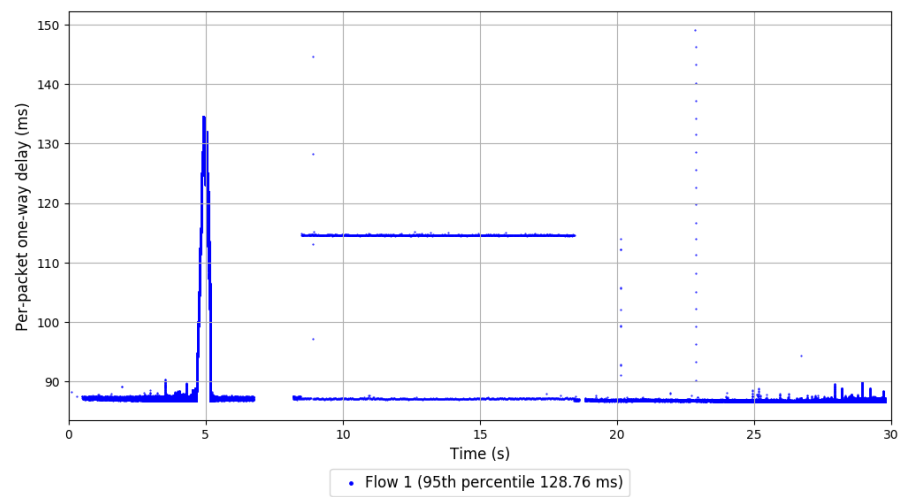
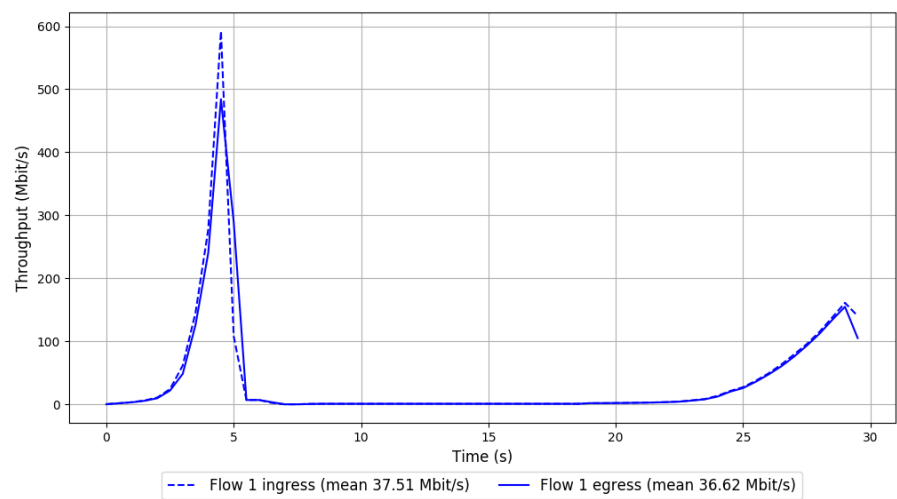
-- Flow 1:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 128.757 ms

Loss rate: 2.96%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 09:14:53

End at: 2018-01-16 09:15:23

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.59 Mbit/s

95th percentile per-packet one-way delay: 161.157 ms

Loss rate: 0.74%

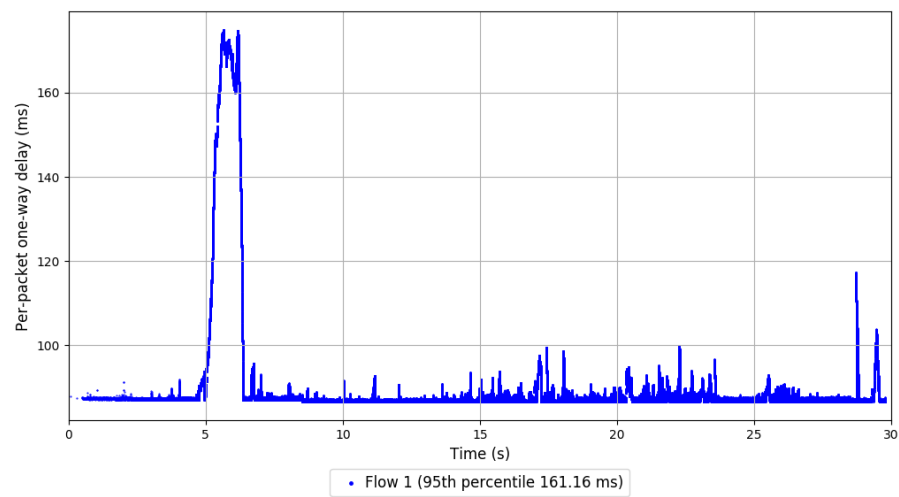
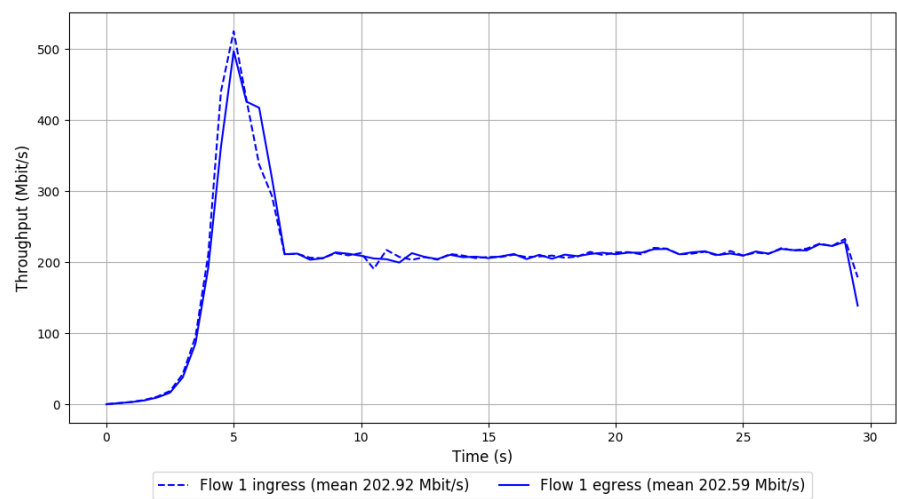
-- Flow 1:

Average throughput: 202.59 Mbit/s

95th percentile per-packet one-way delay: 161.157 ms

Loss rate: 0.74%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 09:29:46

End at: 2018-01-16 09:30:16

Below is generated by plot.py at 2018-01-16 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 101.598 ms

Loss rate: 0.02%

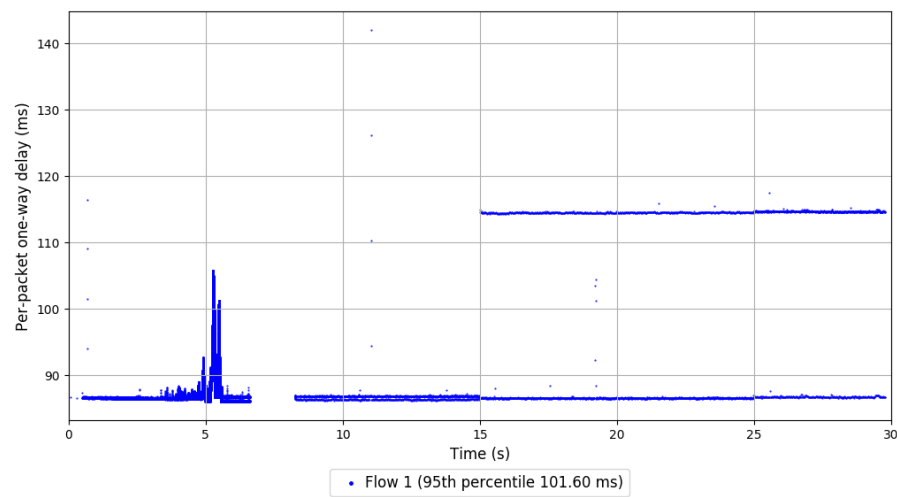
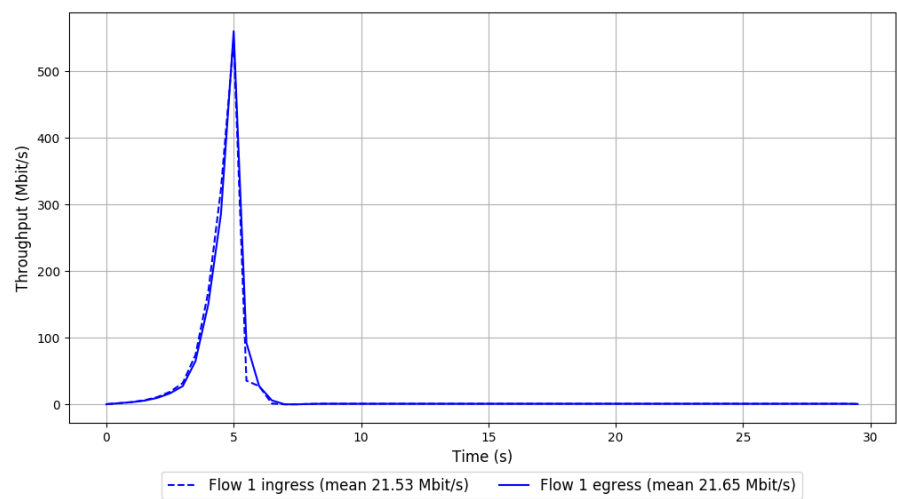
-- Flow 1:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 101.598 ms

Loss rate: 0.02%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 09:44:08

End at: 2018-01-16 09:44:38

Below is generated by plot.py at 2018-01-16 13:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.47 Mbit/s

95th percentile per-packet one-way delay: 89.605 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 200.47 Mbit/s

95th percentile per-packet one-way delay: 89.605 ms

Loss rate: 0.58%

Run 10: Report of Vivace-LTE — Data Link

